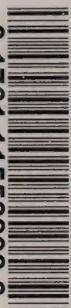


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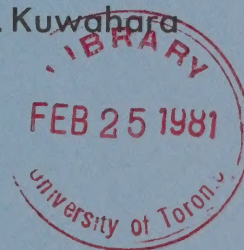


**DATA RECORD OF CURRENT OBSERVATIONS
VOLUME VIII**

**DISCOVERY PASSAGE, JOHNSTONE STRAIT
AND QUEEN CHARLOTTE STRAIT**

**PART 2 - APPENDICES (LISTING OF WATER PROPERTY DATA)
APPENDIX A(1) - 1976 and 1977**

by R.E. Thomson, W.S. Huggett and L.S.C. Kuwahara



**INSTITUTE OF OCEAN SCIENCES
SIDNEY, B.C.**

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V8L 4B2

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VOLUME VIII

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APPENDIX A(1) - 1976 and 1977

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R.E. Thomson, W.S. Huggett and

L.S.C. Kuwahara

Institute of Ocean Sciences

Sidney, B.C.

1980

APPENDIX A

Listings and profiles of physical properties: temperature, salinity, sigma-t and sound speed.

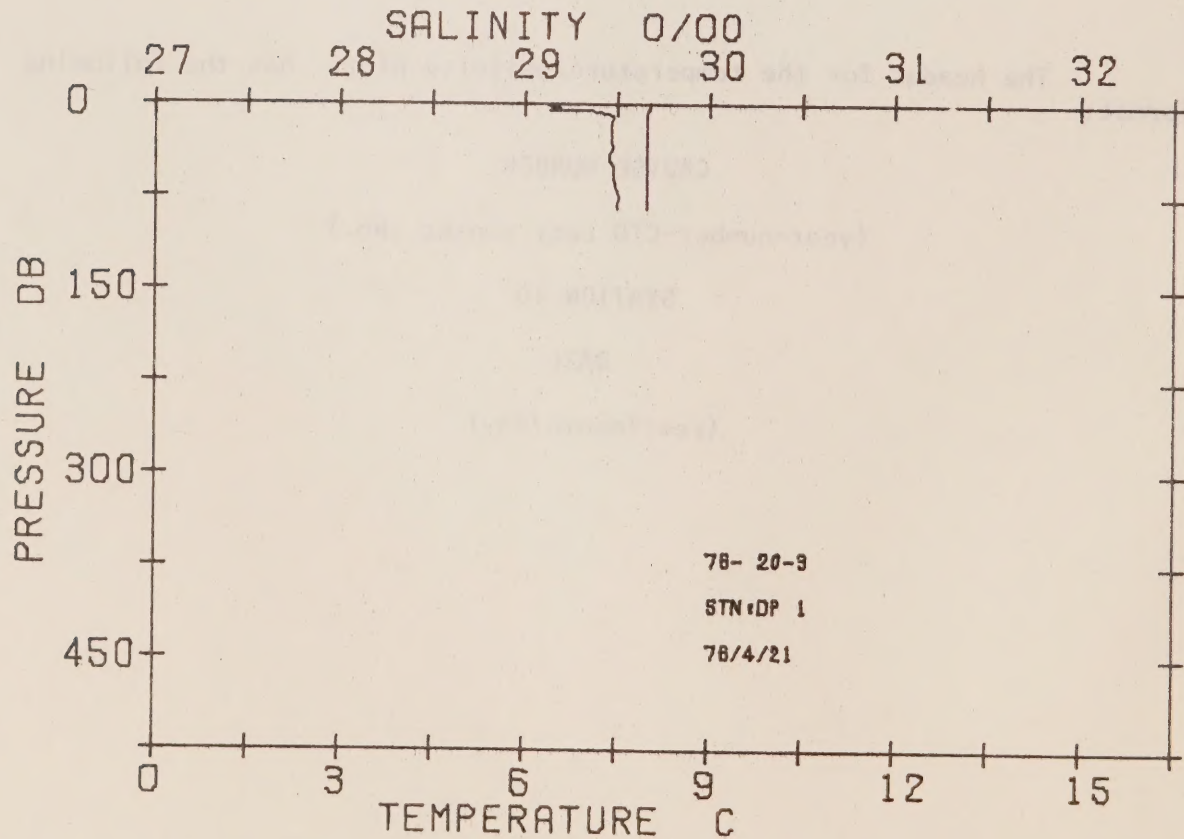
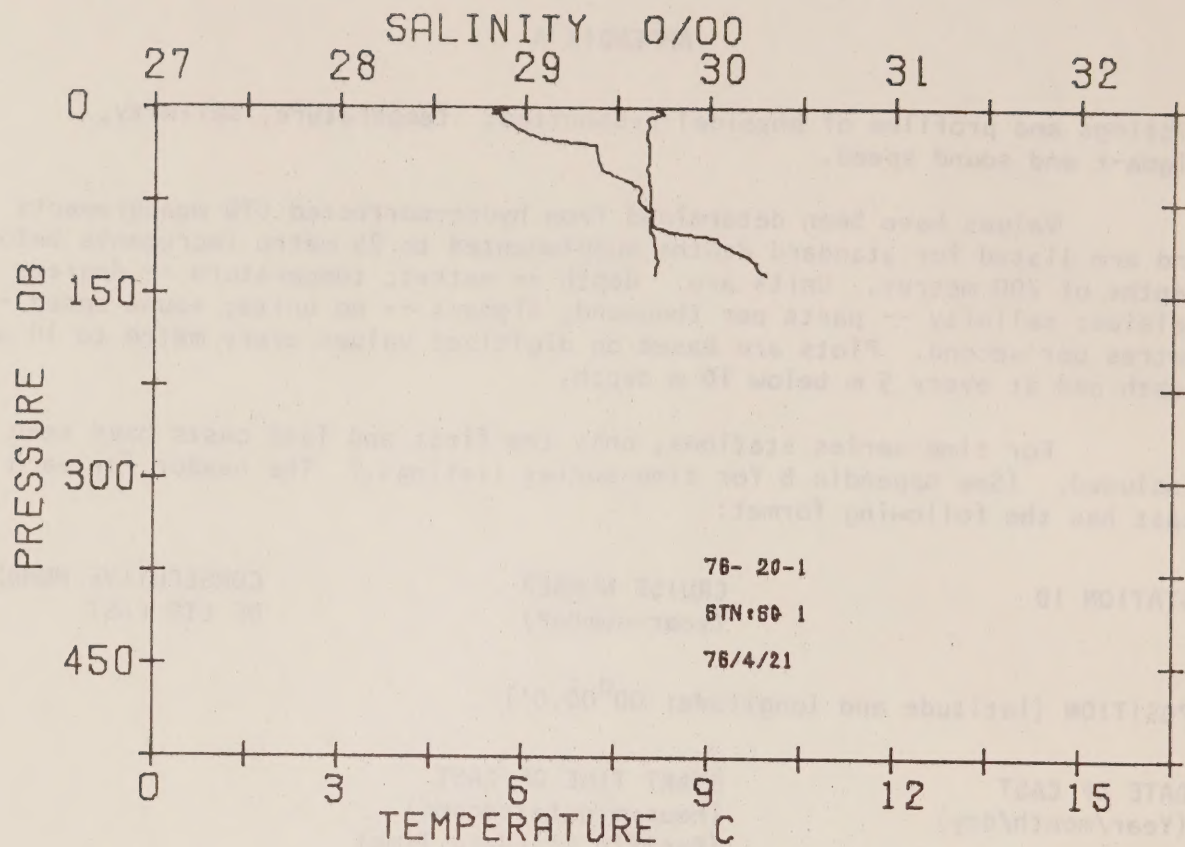
Values have been determined from hydro-corrected CTD measurements and are listed for standard depths supplemented to 25 metre increments below depths of 200 metres. Units are: depth -- metres; temperature -- degrees celsius; salinity -- parts per thousand; sigma-t -- no units; sound speed -- metres per second. Plots are based on digitized values every metre to 10 m depth and at every 5 m below 10 m depth.

For time-series stations, only the first and last casts have been included. (See Appendix B for time-series listings.) The header for each cast has the following format:

STATION ID	CRUISE NUMBER (year-number)	CONSECUTIVE NUMBER OF CTD CAST
POSITION (latitude and longitude: 00°00.0')		
DATE OF CAST (Year/month/day)	START TIME OF CAST (hour:minute:second) (Pacific Standard Time)	

The header for the temperature/salinity plots has the following format:

CRUISE NUMBER (year-number-CTD cast consec. No.)
STATION ID
DATE (year/month/day)

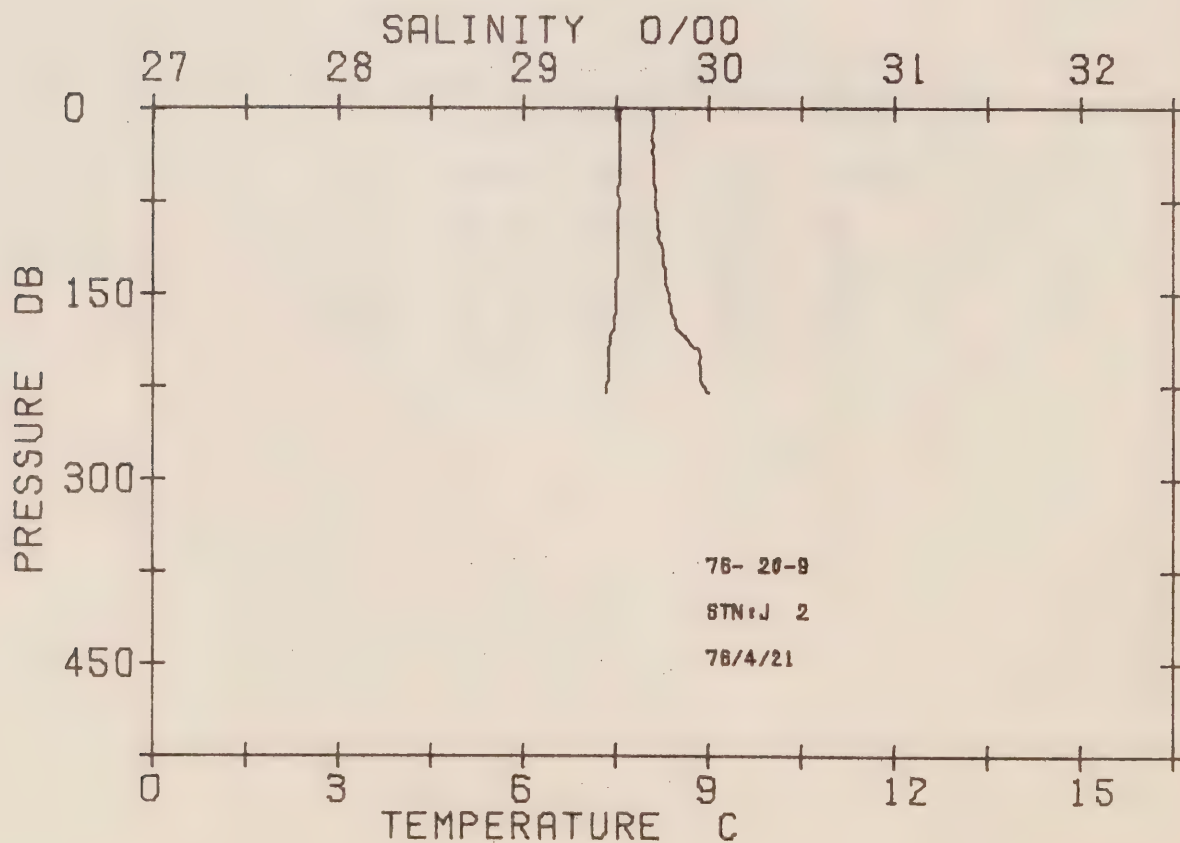
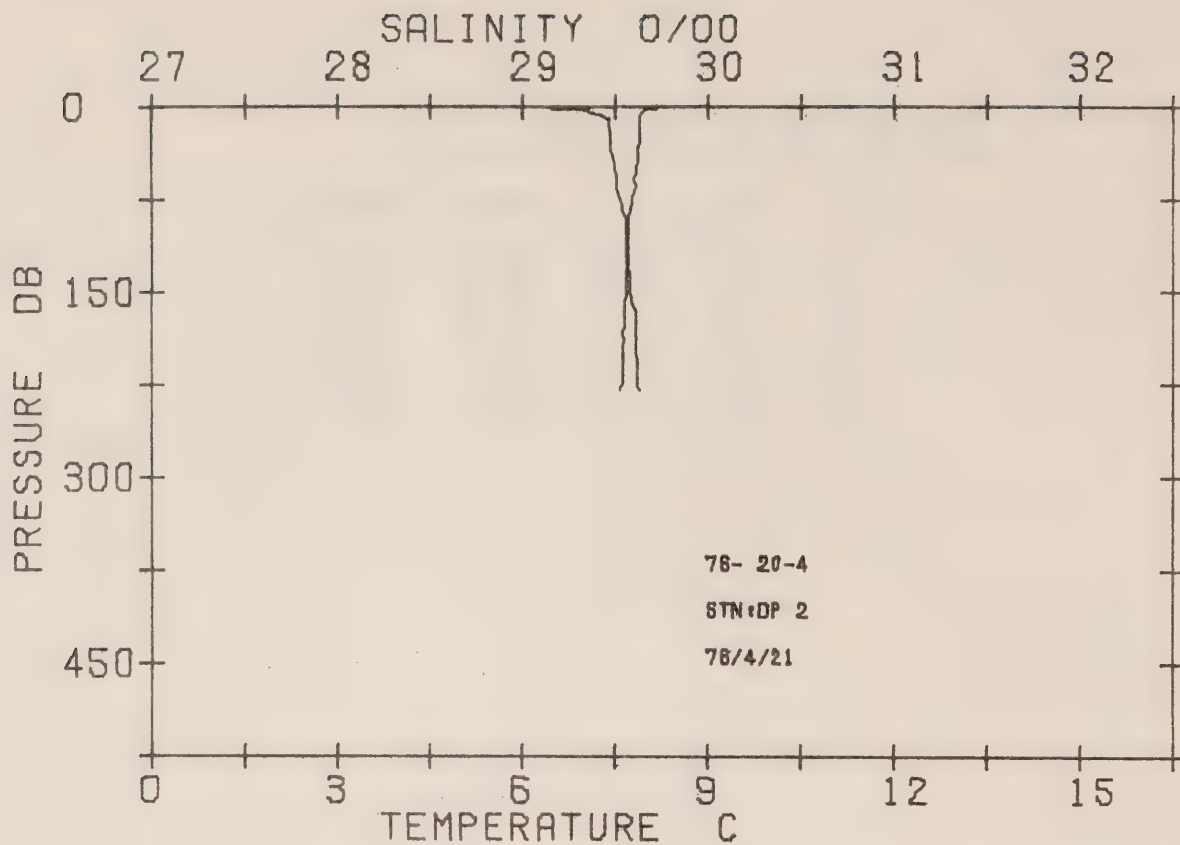


STATION SG 1 CRUISE 76-20 CONS # 1
 POSITION 49-55.0N 125- 5.5W
 DATE 76/ 4/21 TIME 10:18:20 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.12	28.90	22.51	1476.
10	7.98	28.88	22.51	1475.
20	7.98	29.00	22.60	1475.
30	8.01	29.39	22.90	1476.
50	7.98	29.42	22.93	1476.
75	8.04	29.61	23.07	1477.
100	8.04	29.79	23.21	1478.
125	8.15	30.25	23.55	1479.

STATION DP 1 CRUISE 76-20 CONS # 3
 POSITION 50- 5.1N 125-16.4W
 DATE 76/ 4/21 TIME 12:26:58 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	8.04	29.12	22.69	1475.
10	7.98	29.48	22.98	1476.
20	7.98	29.47	22.97	1476.
30	7.97	29.47	22.97	1476.
50	7.97	29.48	22.98	1476.
75	7.96	29.51	23.00	1477.

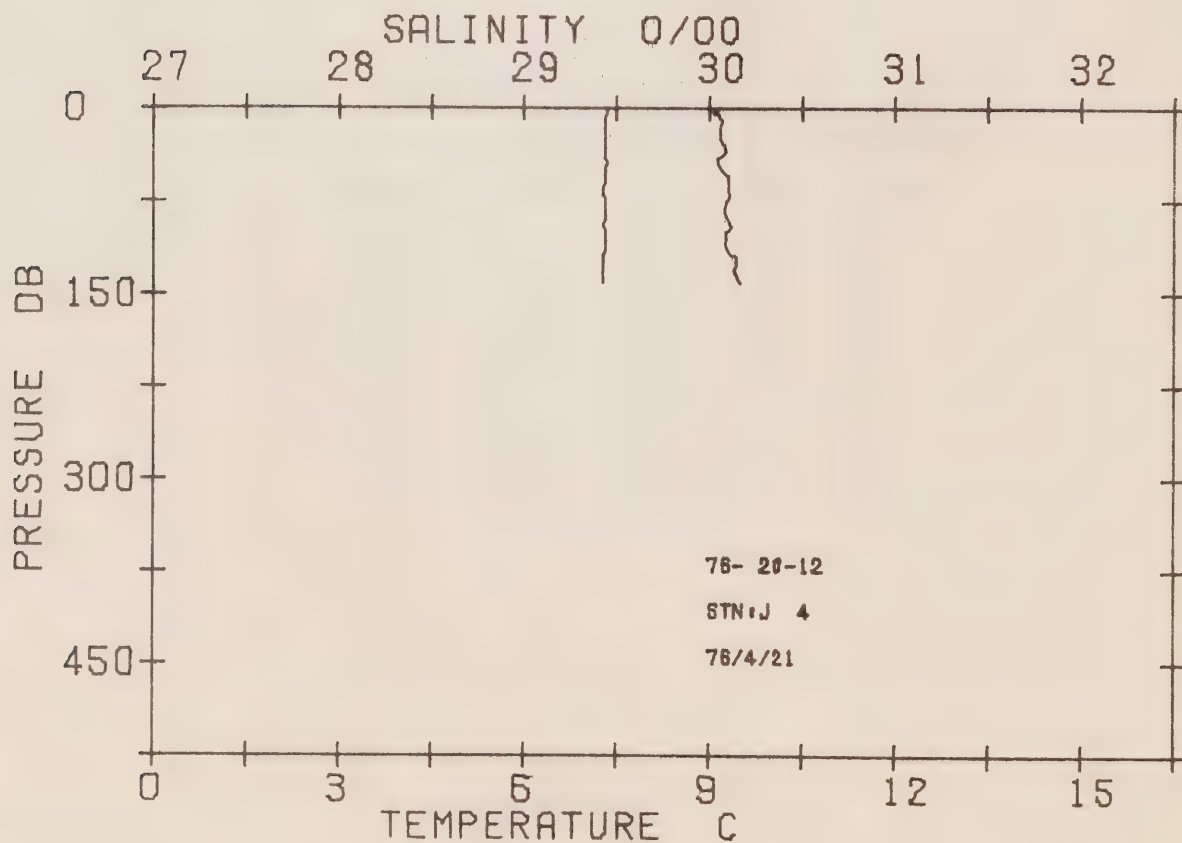
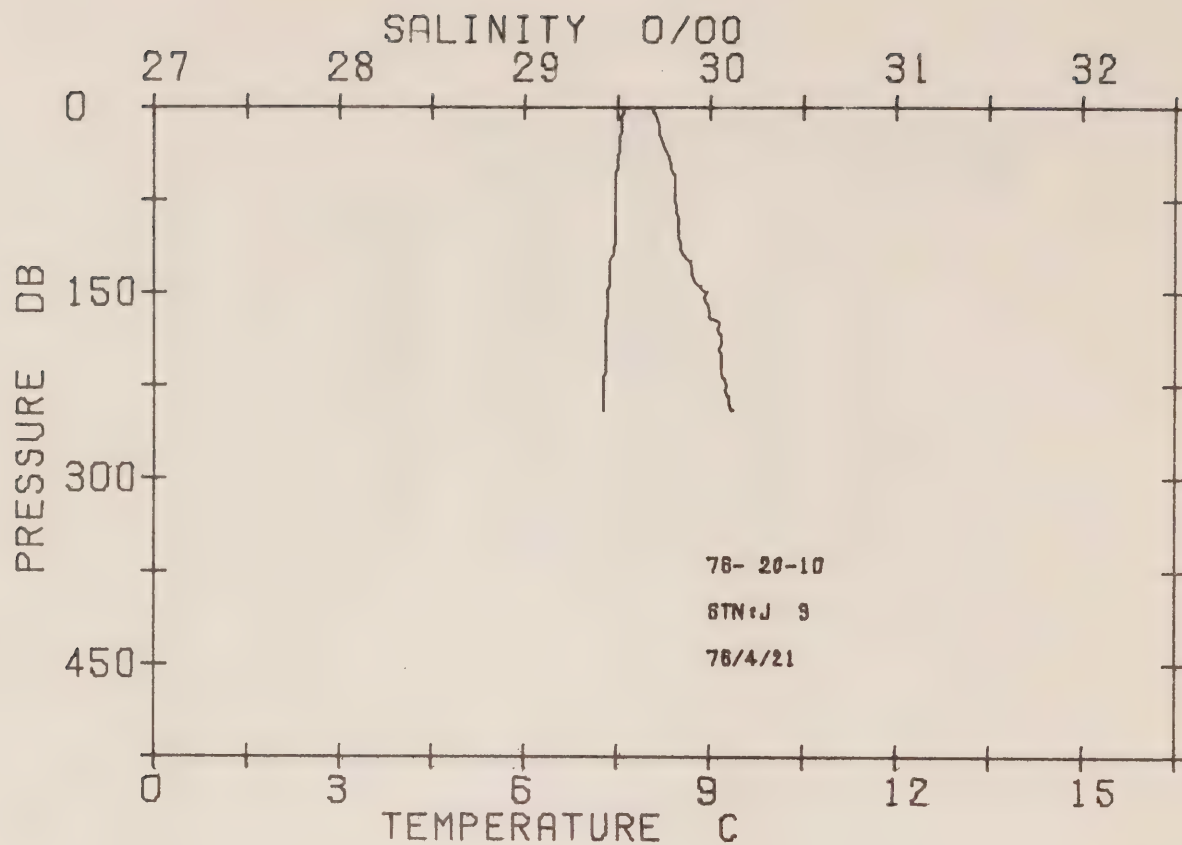


STATION DP 2 CRUISE 76-20 CONS # 4
 POSITION 50-14.7N 126-23.0W
 DATE 76/ 4/21 TIME 13:39:11 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.10	29.25	22.78	1476.
10	7.92	29.47	22.98	1476.
20	7.90	29.48	22.99	1476.
30	7.90	29.48	22.99	1476.
50	7.85	29.50	23.01	1476.
75	7.77	29.53	23.04	1476.
100	7.72	29.56	23.07	1476.
125	7.71	29.56	23.08	1477.
150	7.69	29.58	23.10	1477.
175	7.65	29.61	23.12	1477.
200	7.64	29.61	23.13	1478.
225	7.61	29.63	23.14	1478.

STATION J 2 CRUISE 76-20 CONS # 9
 POSITION 50-22.2N 125-33.5W
 DATE 76/ 4/21 TIME 16:45:16 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.59	29.70	23.20	1474.
10	7.56	29.71	23.21	1475.
20	7.57	29.70	23.21	1475.
30	7.57	29.71	23.21	1475.
50	7.56	29.71	23.21	1475.
75	7.55	29.72	23.22	1476.
100	7.53	29.74	23.24	1476.
125	7.52	29.76	23.26	1476.
150	7.50	29.79	23.28	1477.
175	7.47	29.82	23.31	1477.
200	7.36	29.96	23.44	1477.
225	7.35	29.98	23.45	1477.

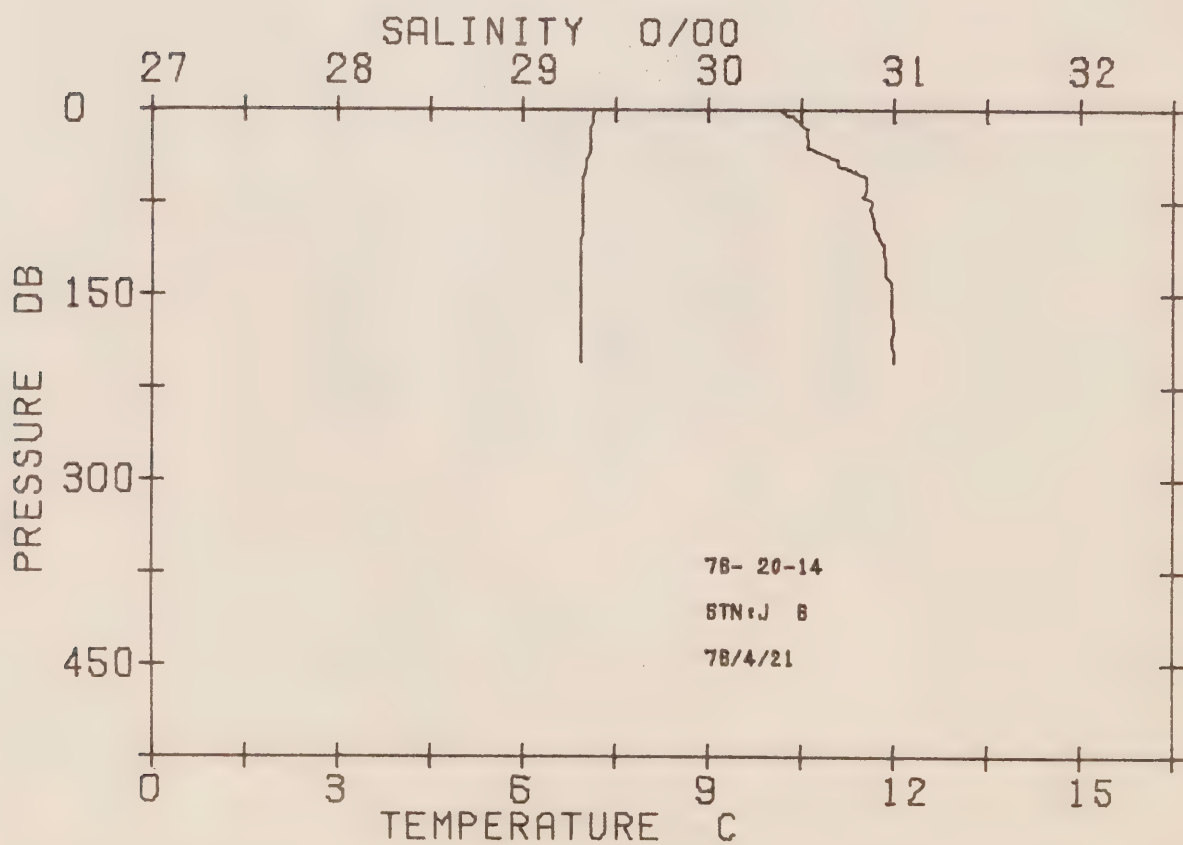
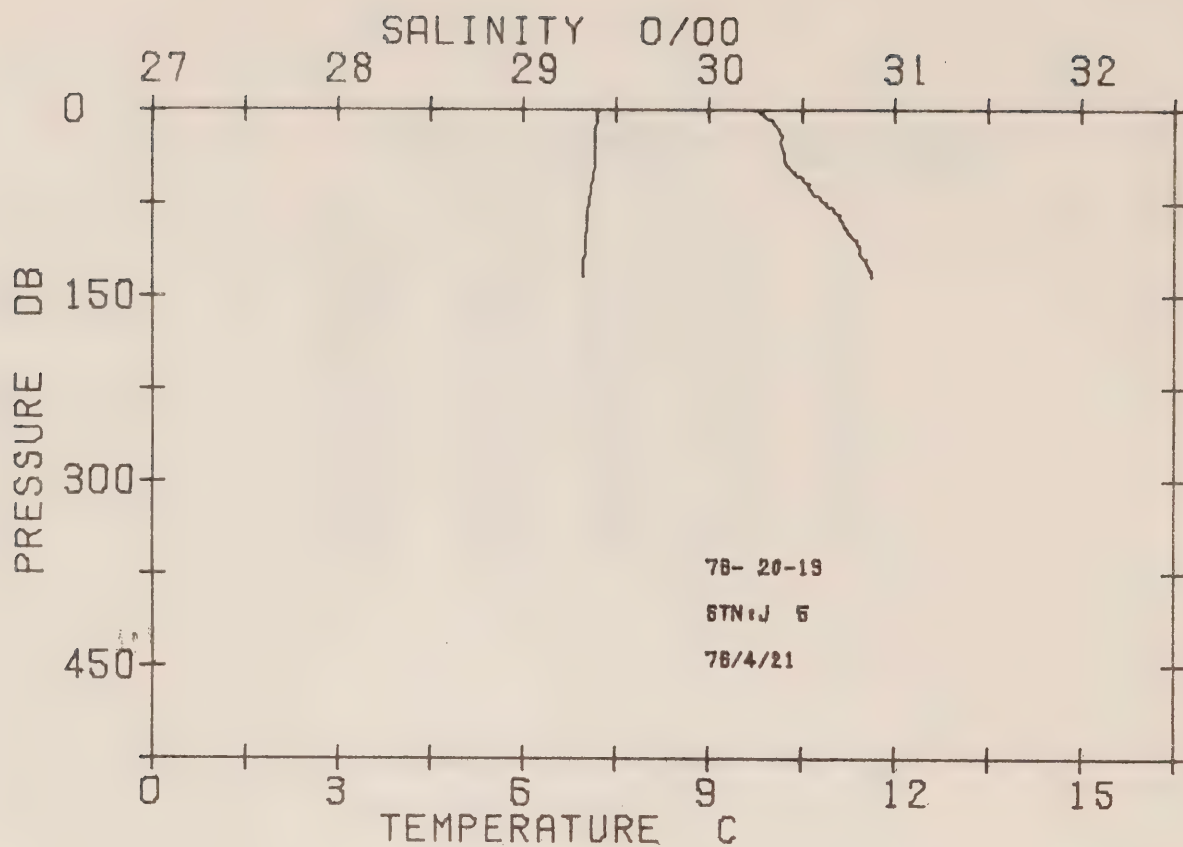


STATION J 3 CRUISE 76-20 CONS # 10
 POSITION 50-22.2N 125-39.0W
 DATE 76/ 4/21 TIME 18:11:24 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.59	29.70	23.20	1474.
10	7.56	29.72	23.22	1475.
20	7.55	29.73	23.23	1475.
30	7.53	29.75	23.25	1475.
50	7.49	29.79	23.29	1475.
75	7.48	29.81	23.30	1475.
100	7.46	29.83	23.32	1476.
125	7.39	29.90	23.39	1476.
150	7.34	29.98	23.45	1476.
175	7.31	30.05	23.51	1477.
200	7.30	30.06	23.52	1477.
225	7.29	30.09	23.55	1477.

STATION J 4 CRUISE 76-20 CONS # 12
 POSITION 50-22.7N 125-47.0W
 DATE 76/ 4/21 TIME 19:35:13 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.33	30.05	23.51	1474.
10	7.32	30.07	23.52	1474.
20	7.32	30.06	23.52	1474.
30	7.31	30.08	23.53	1474.
50	7.31	30.07	23.53	1475.
75	7.31	30.09	23.54	1475.
100	7.30	30.09	23.55	1475.
125	7.28	30.15	23.60	1476.

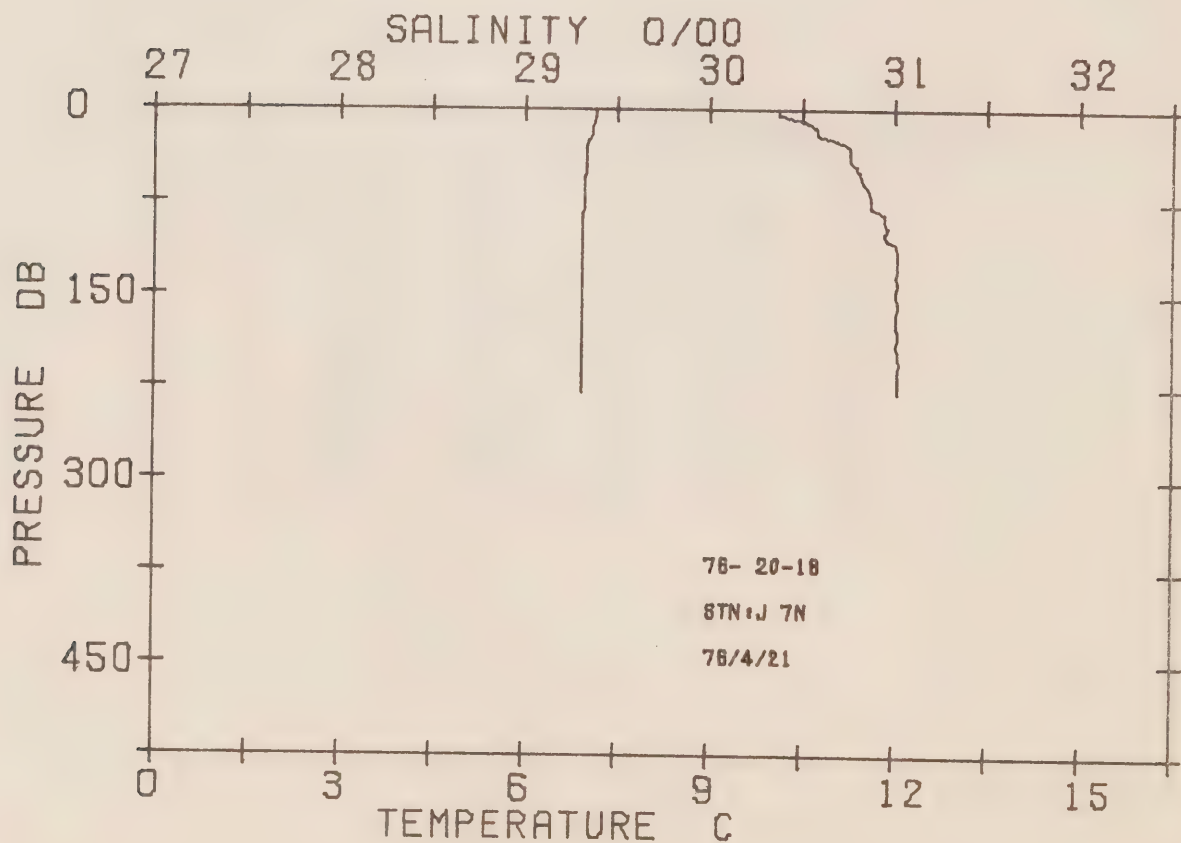
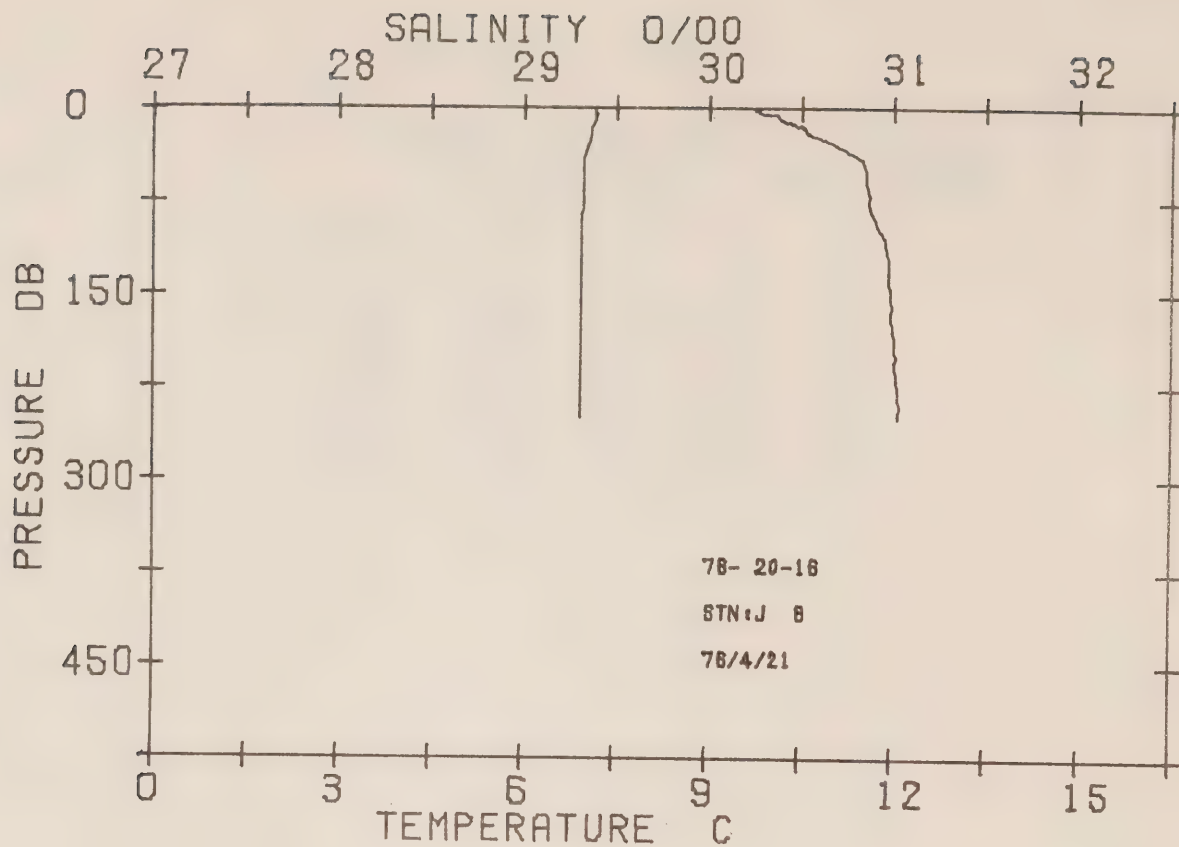


STATION J 5 CRUISE 76-20 CONS # 13
 POSITION 50-24.5N 125-56.8W
 DATE 76/ 4/21 TIME 20:44:50 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.21	30.28	23.71	1474.
10	7.18	30.34	23.76	1474.
20	7.16	30.40	23.81	1474.
30	7.16	30.40	23.81	1474.
50	7.13	30.46	23.86	1474.
75	7.06	30.62	23.99	1475.
100	7.01	30.76	24.11	1475.
125	6.98	30.85	24.18	1476.

STATION J 6 CRUISE 76-20 CONS # 14
 POSITION 50-26.4N 126- .7W
 DATE 76/ 4/21 TIME 21:24:46 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.15	30.42	23.83	1474.
10	7.12	30.49	23.88	1474.
20	7.10	30.53	23.91	1474.
30	7.10	30.53	23.92	1474.
50	7.01	30.79	24.13	1474.
75	6.96	30.89	24.21	1475.
100	6.96	30.92	24.24	1475.
125	6.94	30.96	24.28	1476.
150	6.93	30.99	24.30	1476.
175	6.93	31.00	24.31	1476.
200	6.93	31.00	24.31	1477.

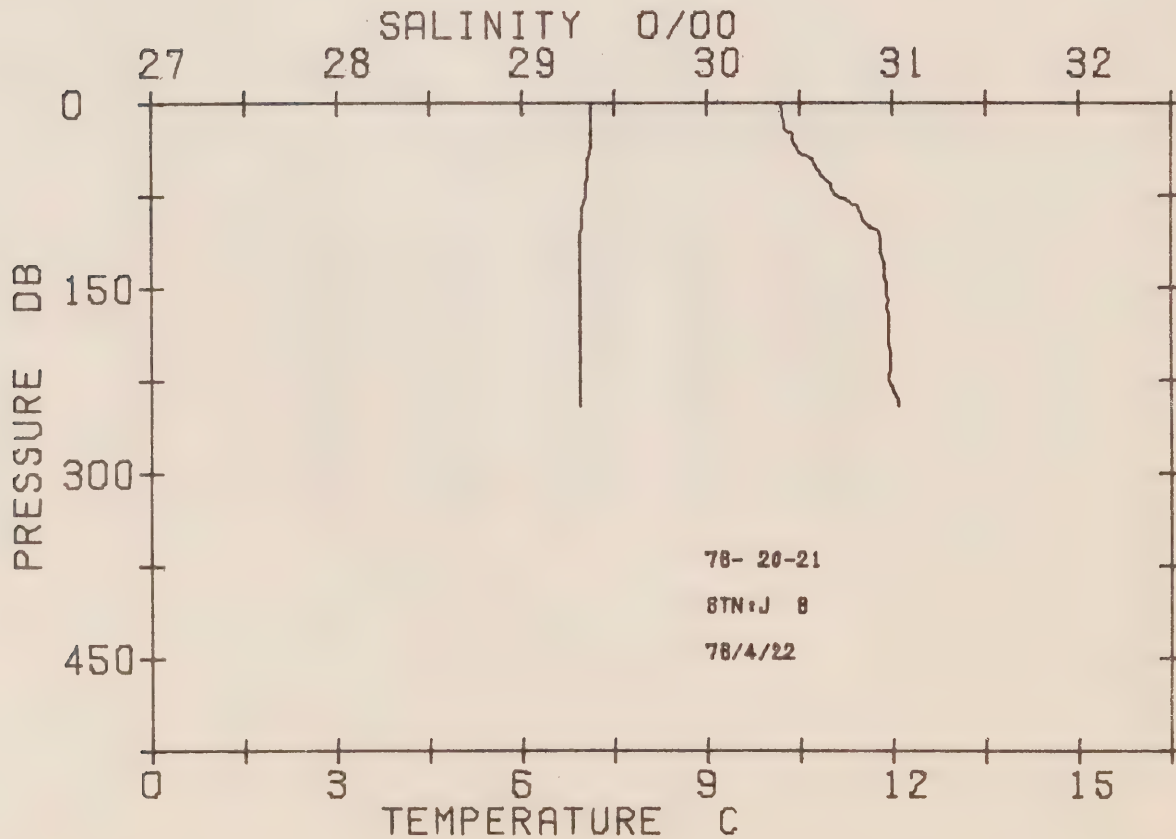
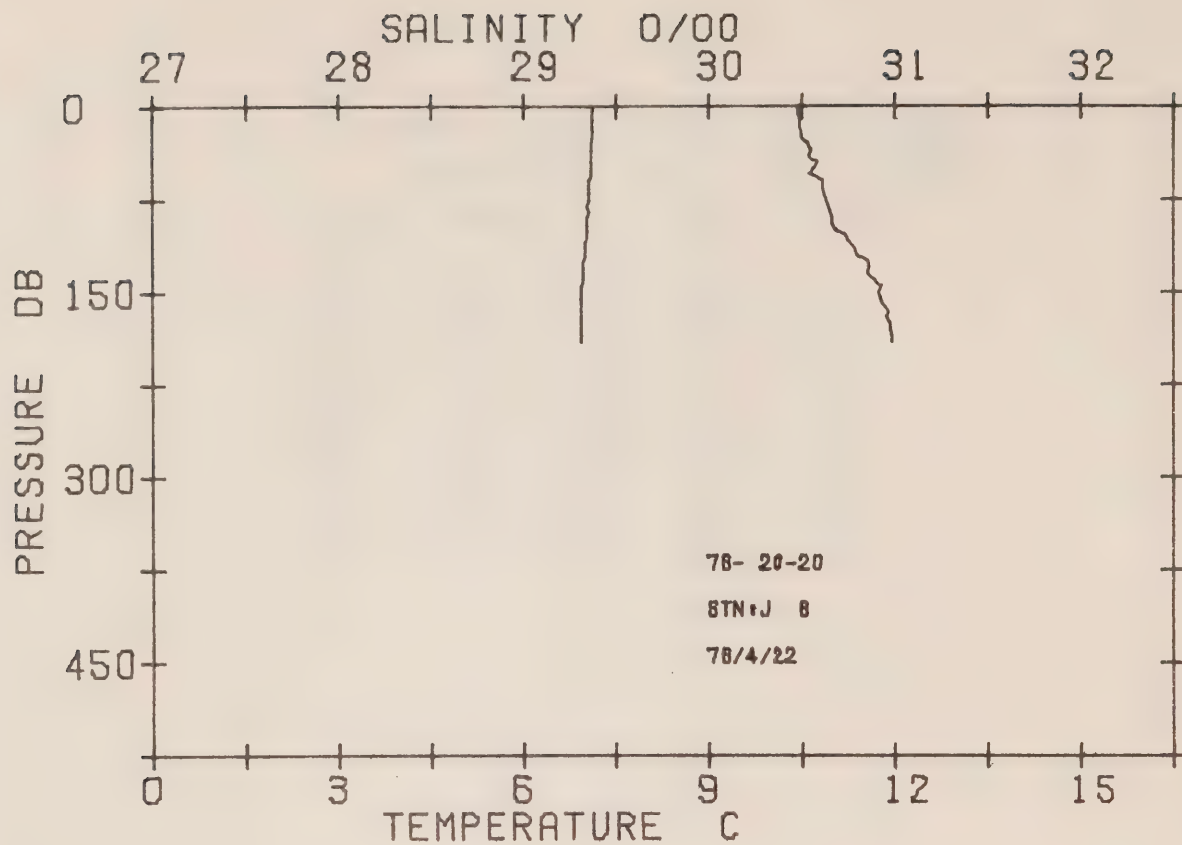


STATION J 8 CRUISE 76-20 CONS # 16
 POSITION 50-27.5N 126- 3.4W
 DATE 76/ 4/21 TIME 22:23:48 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.16	30.27	23.70	1473.
10	7.15	30.40	23.81	1474.
20	7.08	30.54	23.93	1474.
30	7.02	30.70	24.06	1474.
50	6.97	30.85	24.18	1474.
75	6.96	30.86	24.20	1475.
100	6.94	30.94	24.26	1475.
125	6.94	30.98	24.29	1476.
150	6.94	30.99	24.30	1476.
175	6.94	31.00	24.30	1476.
200	6.94	31.02	24.32	1477.
225	6.93	31.03	24.33	1477.
250	6.93	31.03	24.33	1478.

STATION J 7N CRUISE 76-20 CONS # 18
 POSITION 50-27.8N 126- 1.4W
 DATE 76/ 4/21 TIME 23:52:43 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.16	30.37	23.78	1474.
10	7.11	30.52	23.91	1474.
20	7.08	30.58	23.96	1474.
30	7.01	30.76	24.11	1474.
50	6.99	30.81	24.15	1474.
75	6.97	30.87	24.20	1475.
100	6.95	30.95	24.26	1475.
125	6.93	31.02	24.32	1476.
150	6.94	31.01	24.32	1476.
175	6.93	31.01	24.32	1476.
200	6.93	31.02	24.32	1477.
225	6.93	31.02	24.32	1477.

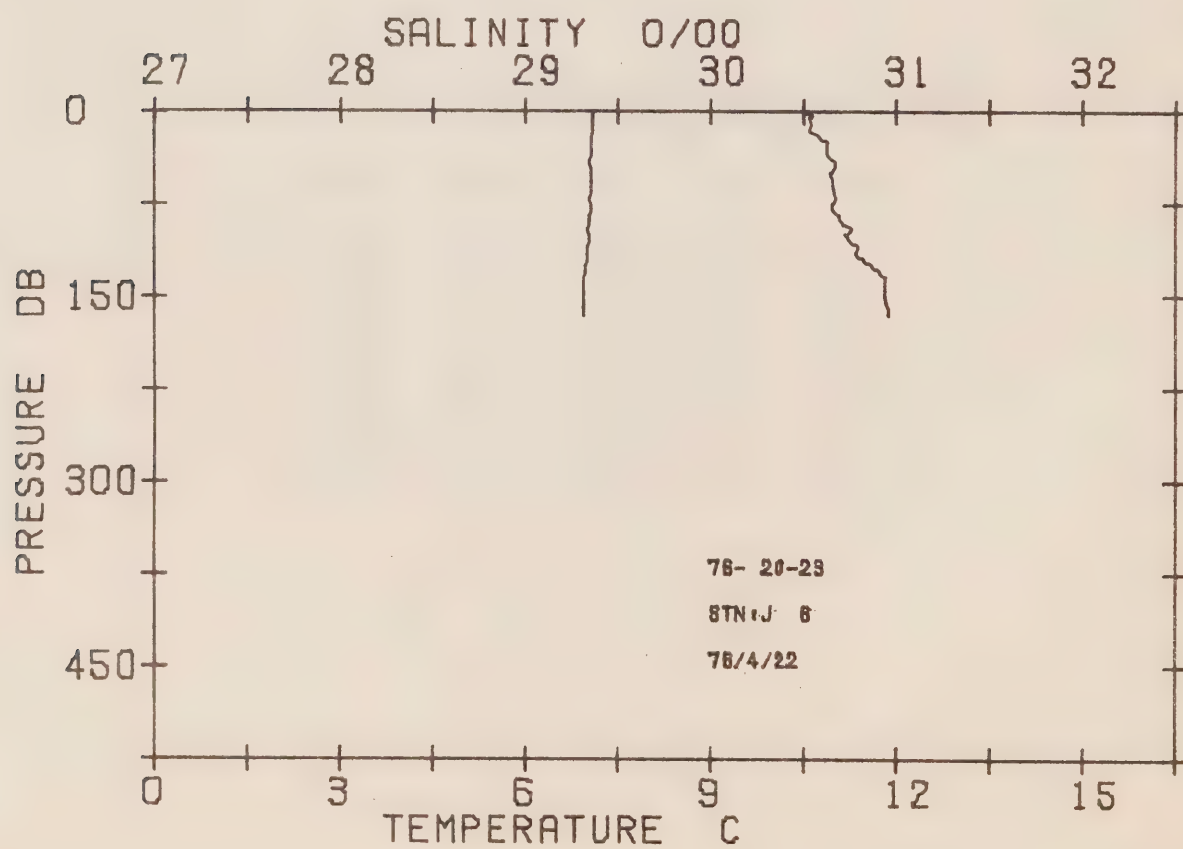
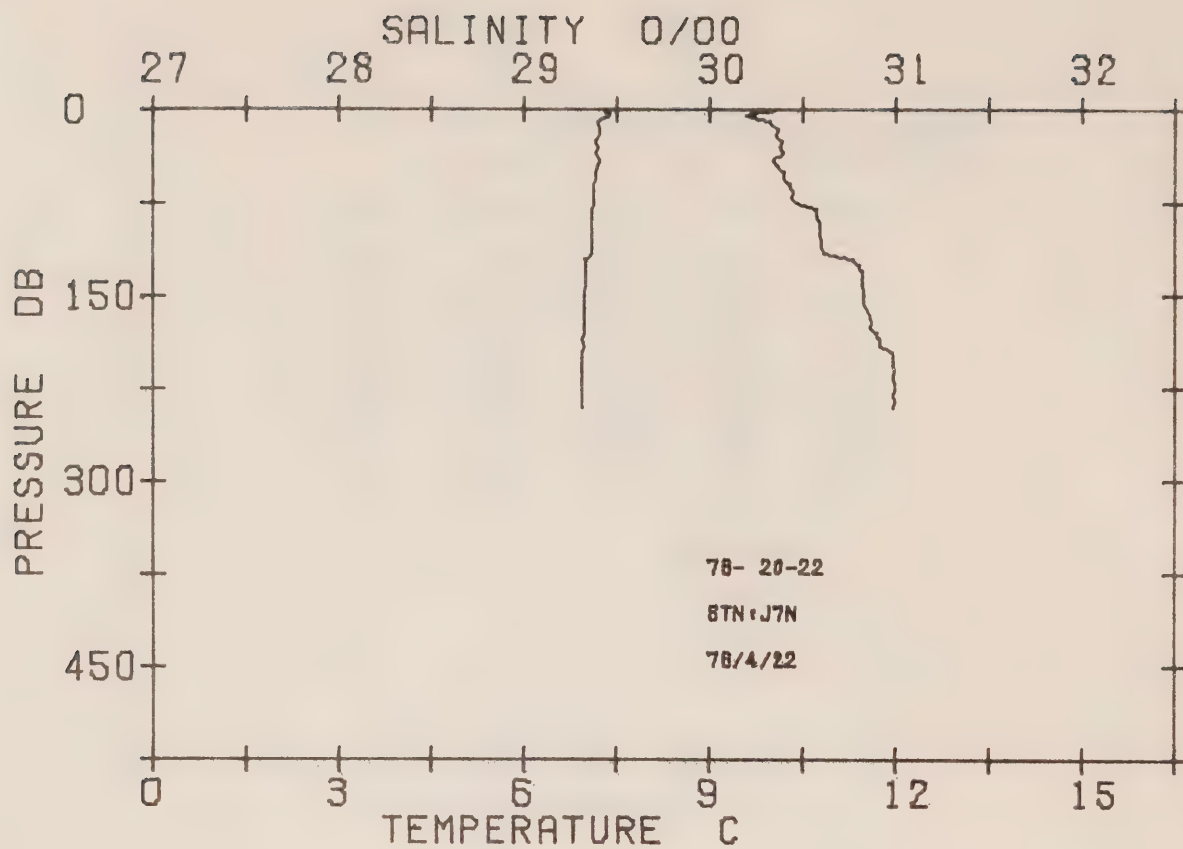


STATION J 6 CRUISE 76-20 CONS # 20
 POSITION 50-26.4N 126- .7W
 DATE 76/ 4/22 TIME 1: 4:16 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.11	30.49	23.88	1474.
10	7.11	30.49	23.88	1474.
20	7.11	30.50	23.89	1474.
30	7.10	30.53	23.92	1474.
50	7.08	30.56	23.95	1474.
75	7.05	30.64	24.01	1475.
100	7.04	30.69	24.05	1475.
125	6.97	30.86	24.19	1476.
150	6.95	30.92	24.25	1476.
175	6.94	30.98	24.29	1476.

STATION J 8 CRUISE 76-20 CONS # 21
 POSITION 50-27.5N 126- 3.4W
 DATE 76/ 4/22 TIME 2: 2:53 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.12	30.40	23.81	1474.
10	7.13	30.41	23.82	1474.
20	7.13	30.42	23.83	1474.
30	7.12	30.46	23.86	1474.
50	7.07	30.58	23.96	1474.
75	7.03	30.70	24.06	1475.
100	6.96	30.87	24.20	1475.
125	6.94	30.95	24.26	1476.
150	6.94	30.97	24.28	1476.
175	6.94	30.98	24.29	1476.
200	6.94	30.99	24.30	1477.
225	6.94	30.98	24.29	1477.

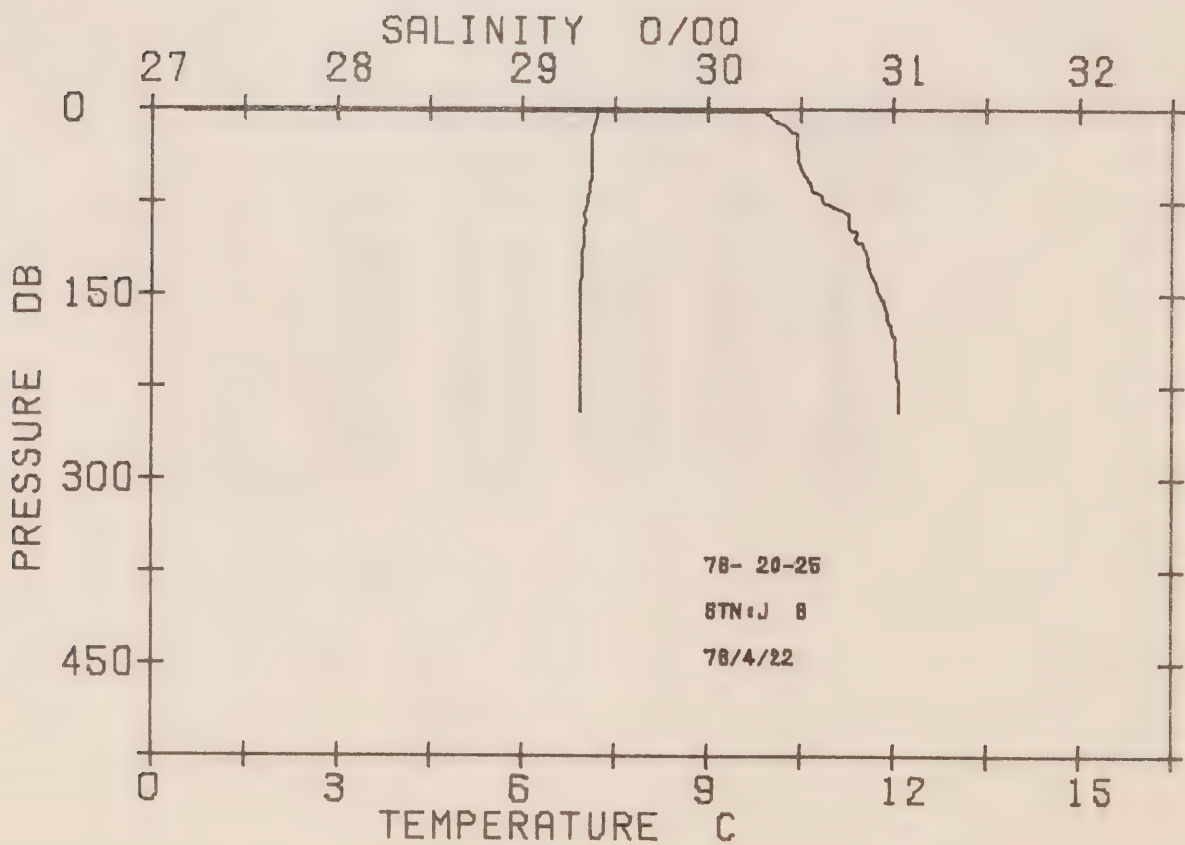
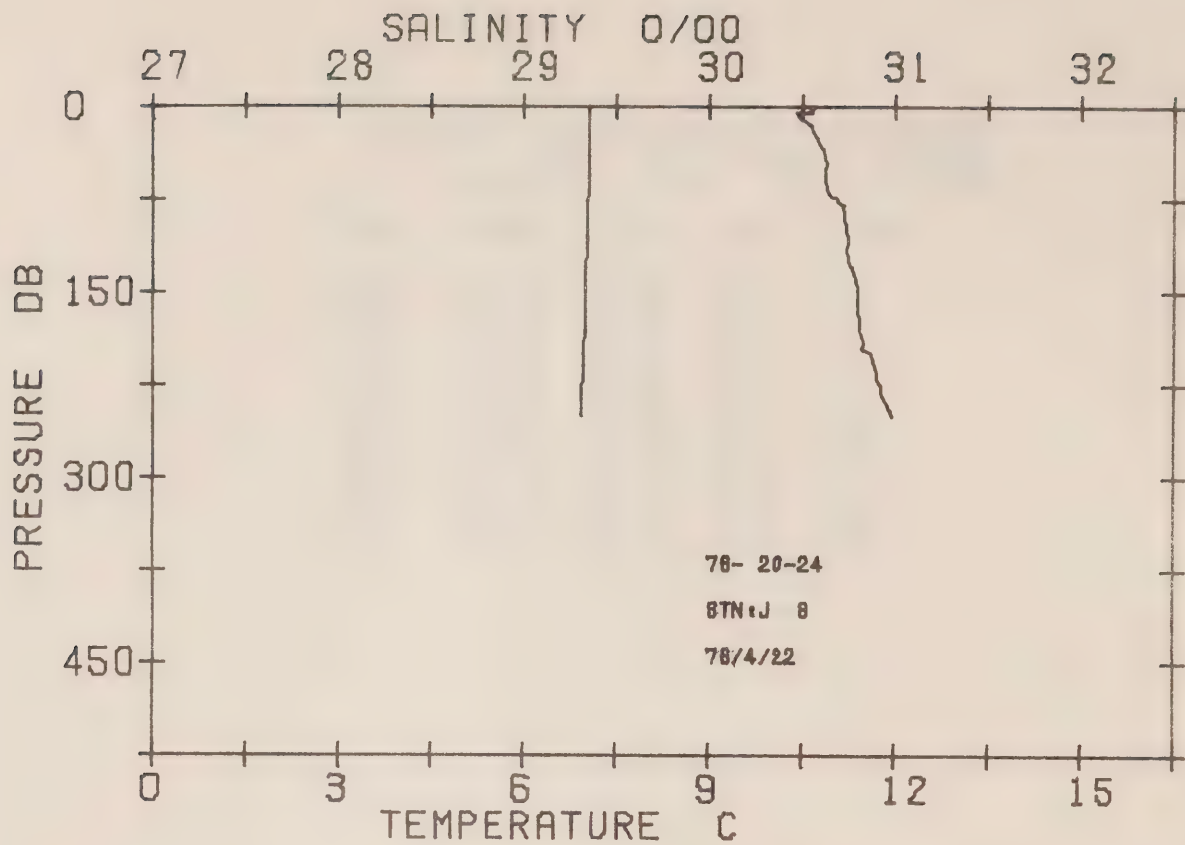


STATION J7N CRUISE 76-20 CONS # 22
 POSITION 50-27.8N 126- 1.4W
 DATE 76/ 4/22 TIME 3: 9:50 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.30	30.35	23.75	1474.
10	7.19	30.32	23.74	1474.
20	7.21	30.35	23.76	1474.
30	7.18	30.38	23.79	1474.
50	7.15	30.40	23.81	1474.
75	7.12	30.47	23.87	1475.
100	7.08	30.59	23.97	1475.
125	7.00	30.80	24.14	1476.
150	6.98	30.83	24.17	1476.
175	6.97	30.86	24.20	1476.
200	6.94	30.99	24.30	1477.
225	6.94	31.00	24.31	1477.

STATION J 6 CRUISE 76-20 CONS # 23
 POSITION 50-26.4N 126- .7W
 DATE 76/ 4/22 TIME 4:14:25 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.08	30.54	23.93	1474.
10	7.08	30.54	23.92	1474.
20	7.07	30.58	23.96	1474.
30	7.06	30.63	24.00	1474.
50	7.05	30.65	24.02	1474.
75	7.05	30.66	24.03	1475.
100	7.02	30.73	24.08	1475.
125	6.97	30.86	24.19	1476.
150	6.94	30.94	24.26	1476.
175	2.97	51.59	41.25	1489.

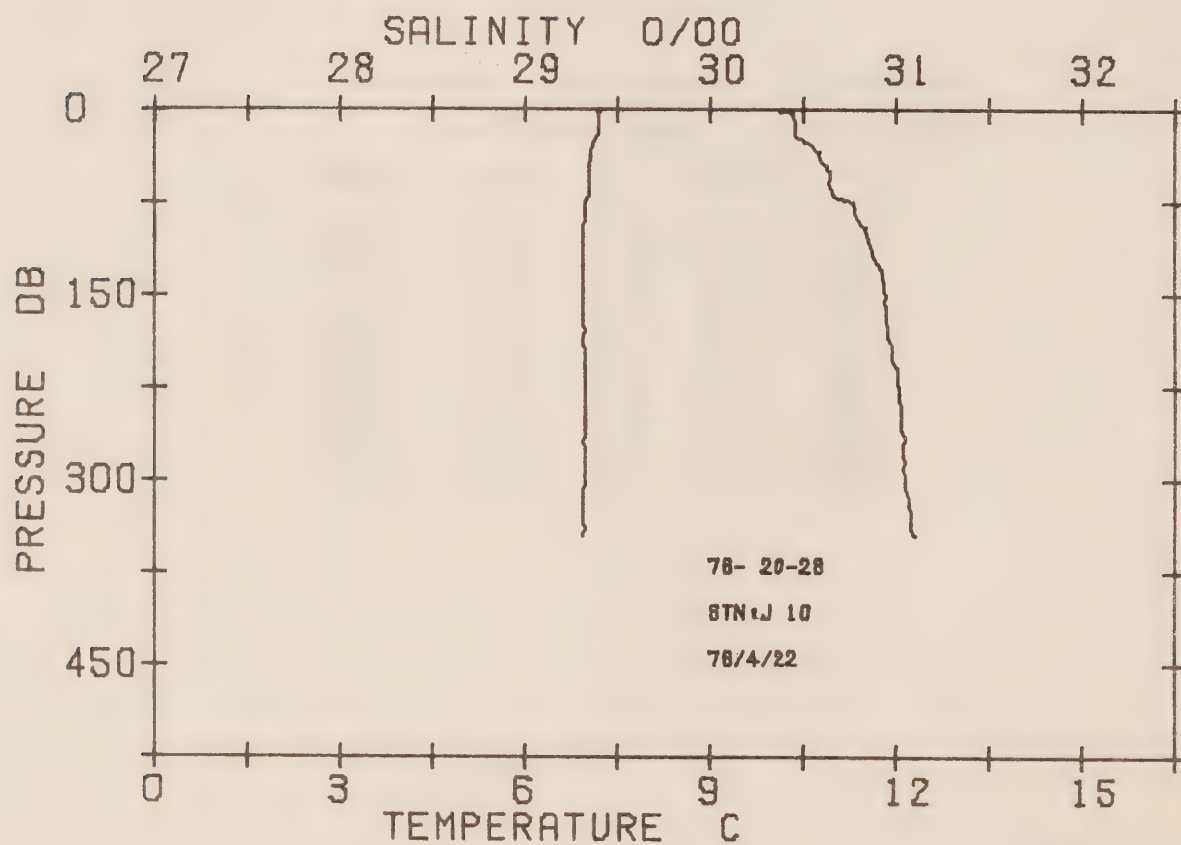
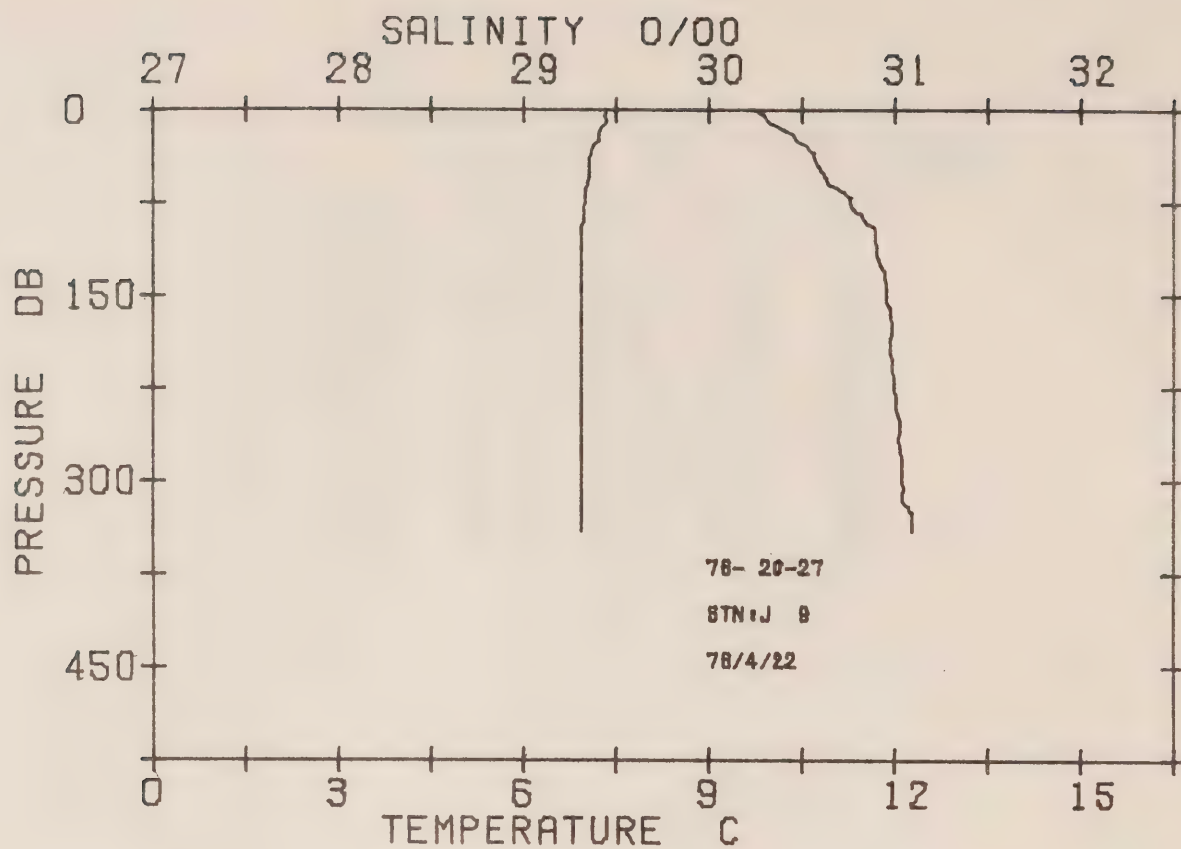


STATION J 8 CRUISE 76-20 CONS # 24
 POSITION 50-27.5N 126- 3.4W
 DATE 76/ 4/22 TIME 5: 9:24 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.07	30.54	23.93	1474.
10	7.05	30.49	23.89	1474.
20	7.07	30.56	23.95	1474.
30	7.06	30.59	23.97	1474.
50	7.05	30.63	24.00	1474.
75	7.04	30.69	24.05	1475.
100	7.02	30.74	24.09	1475.
125	7.01	30.75	24.10	1476.
150	7.00	30.80	24.14	1476.
175	6.99	30.81	24.15	1476.
200	6.97	30.87	24.20	1477.
225	6.95	30.93	24.25	1477.
250	6.94	30.99	24.30	1478.

STATION J 8 CRUISE 76-20 CONS # 25
 POSITION 50-27.5N 126- 3.4W
 DATE 76/ 4/22 TIME 18:16:53 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.22	30.29	23.71	1474.
10	7.20	30.36	23.77	1474.
20	7.14	30.48	23.87	1474.
30	7.13	30.48	23.88	1474.
50	7.12	30.51	23.90	1474.
75	7.06	30.62	23.99	1475.
100	7.00	30.80	24.14	1475.
125	6.97	30.86	24.20	1476.
150	6.95	30.93	24.25	1476.
175	6.93	30.99	24.30	1476.
200	6.94	31.01	24.32	1477.
225	6.93	31.03	24.33	1477.

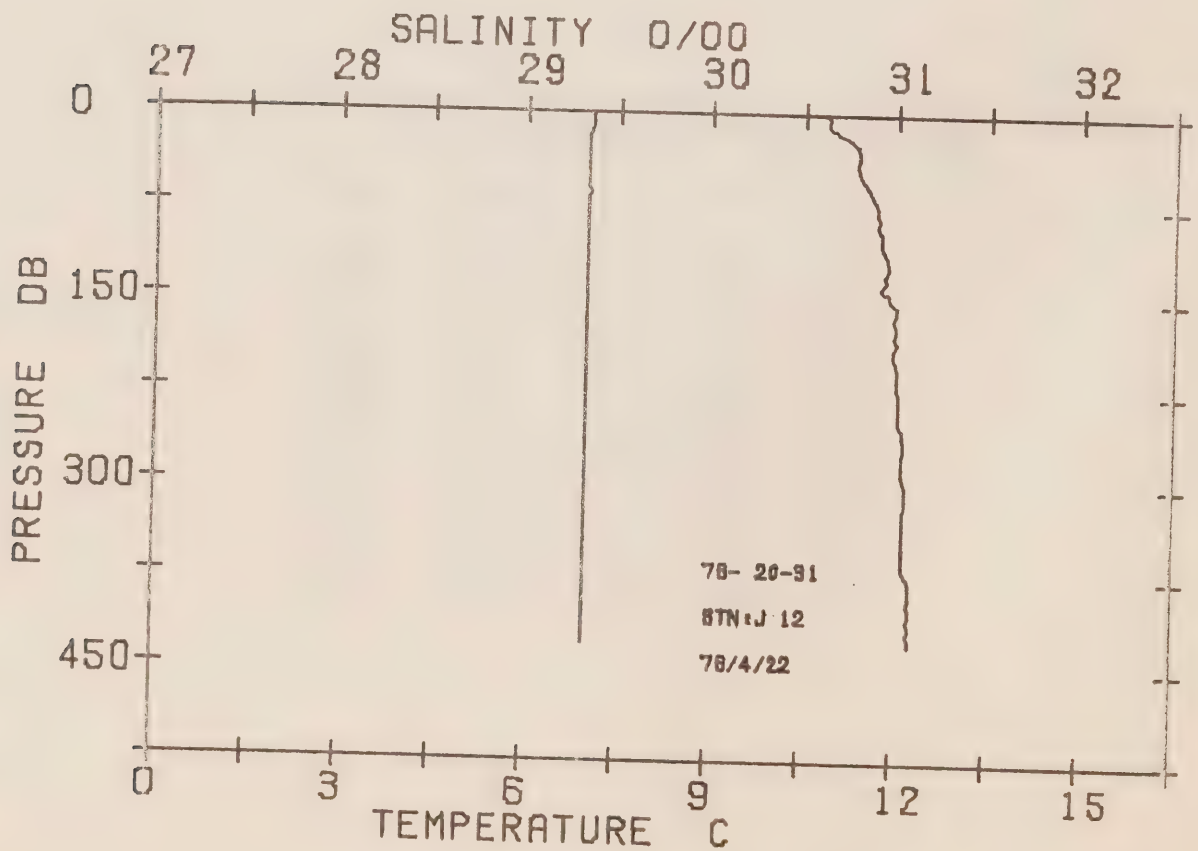
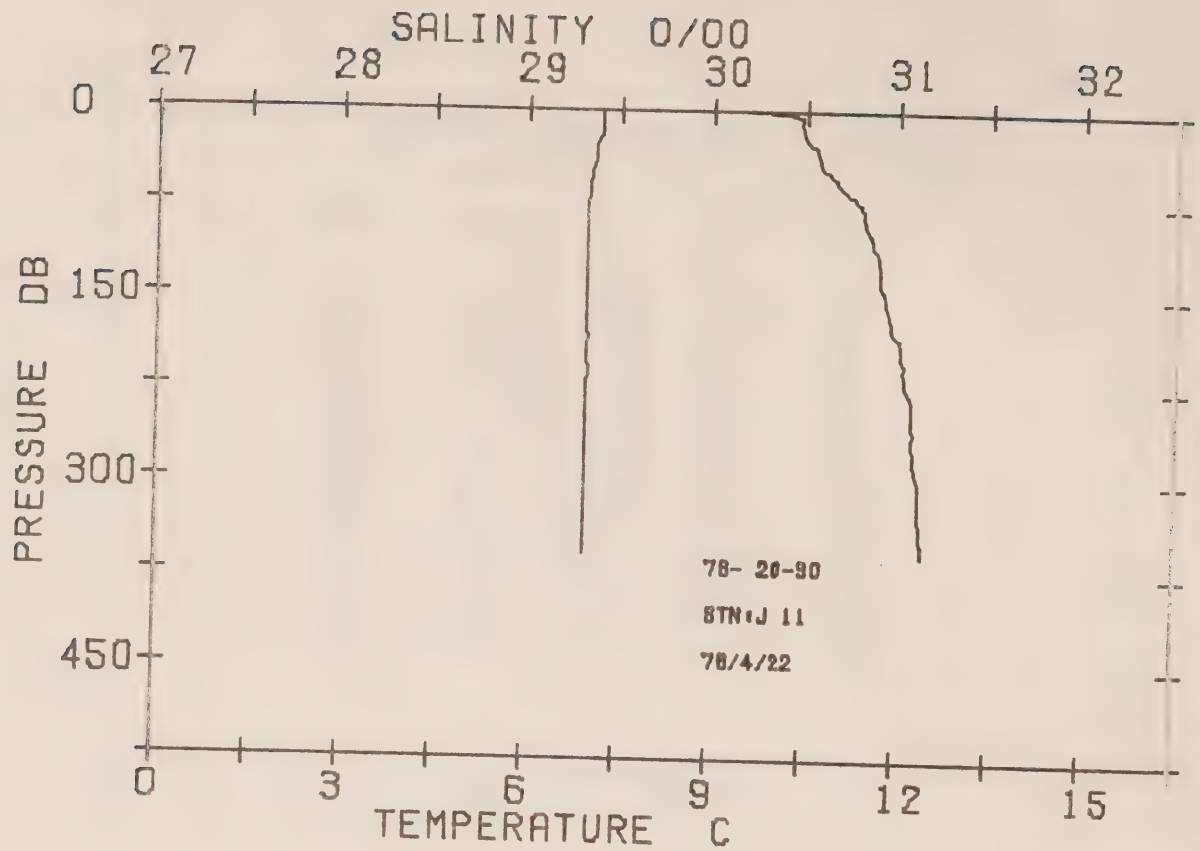


STATION J 9 CRUISE 76-20 CONS # 27
 POSITION 50-28.5N 126-10.7W
 DATE 76/ 4/22 TIME 19:34:39 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.33	30.30	23.71	1474.
10	7.33	30.32	23.72	1474.
20	7.21	30.46	23.85	1474.
30	7.12	30.53	23.91	1474.
50	7.06	30.61	23.98	1474.
75	7.00	30.76	24.11	1475.
100	6.95	30.90	24.22	1475.
125	6.94	30.93	24.25	1475.
150	6.94	30.96	24.27	1476.
175	6.94	30.99	24.30	1476.
200	6.94	30.99	24.30	1477.
225	6.94	31.00	24.31	1477.
250	6.94	31.03	24.33	1478.
275	6.94	31.03	24.33	1478.
300	6.94	31.04	24.34	1479.
325	6.94	31.09	24.37	1479.

STATION J 10 CRUISE 76-20 CONS # 28
 POSITION 50-29.7N 126-18.7W
 DATE 76/ 4/22 TIME 20:30:56 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.21	30.38	23.79	1474.
10	7.20	30.46	23.84	1474.
20	7.20	30.46	23.85	1474.
30	7.08	30.55	23.94	1474.
50	7.04	30.65	24.02	1474.
75	6.98	30.77	24.12	1475.
100	6.95	30.84	24.18	1475.
125	6.94	30.91	24.24	1475.
150	6.95	30.95	24.27	1476.
175	6.95	30.96	24.27	1476.
200	6.96	30.98	24.29	1477.
225	6.96	31.02	24.32	1477.
250	6.96	31.03	24.33	1478.
275	6.96	31.04	24.34	1478.
300	6.96	31.05	24.35	1479.
325	6.95	31.08	24.36	1479.

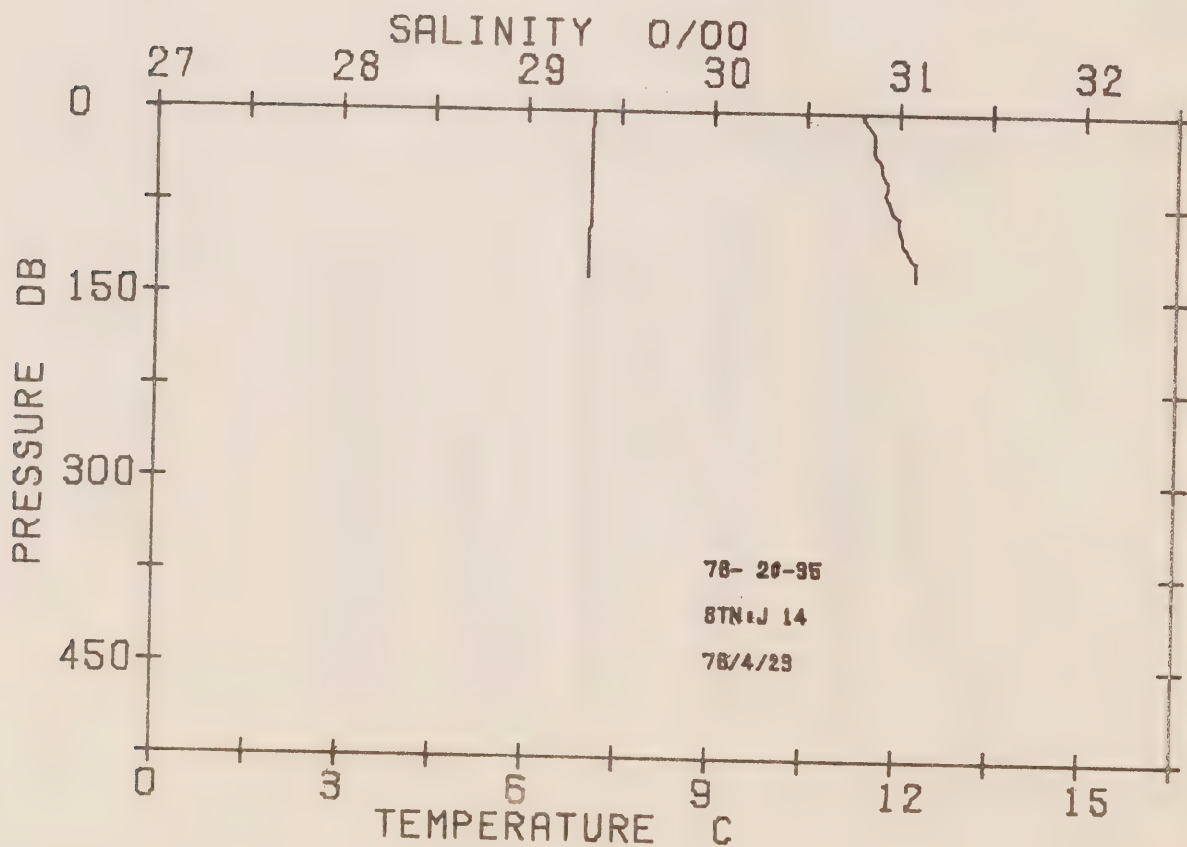
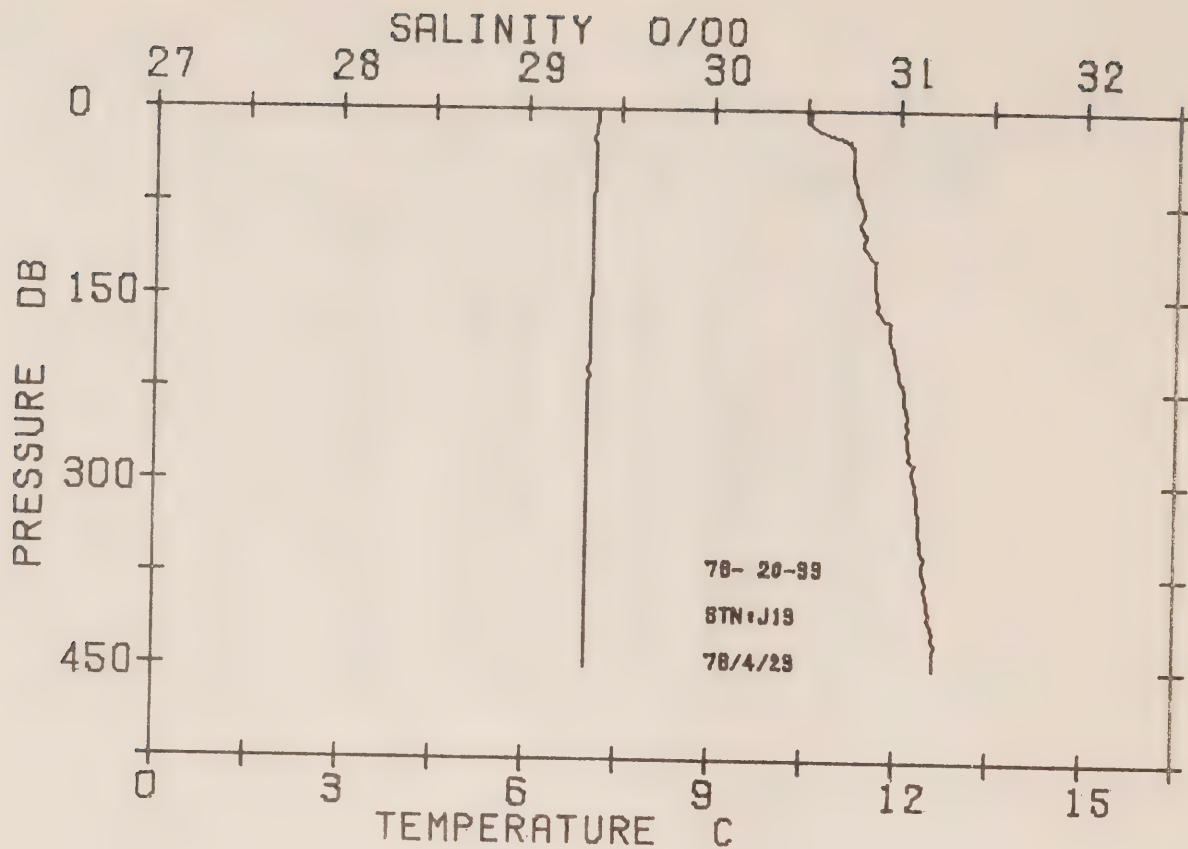


STATION J 11 CRUISE 76-20 CONS # 30
 POSITION 50-30.0N 126-30.0W
 DATE 76/ 4/22 TIME 22:17:26 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.19	30.25	23.68	1474.
10	7.19	30.47	23.86	1474.
20	7.18	30.49	23.87	1474.
30	7.10	30.55	23.93	1474.
50	7.04	30.62	24.00	1474.
75	6.96	30.79	24.14	1475.
100	6.96	30.85	24.18	1475.
125	6.97	30.91	24.23	1476.
150	6.97	30.94	24.25	1476.
175	6.98	30.97	24.28	1477.
200	6.98	31.02	24.32	1477.
225	6.98	31.05	24.34	1477.
250	6.98	31.08	24.36	1478.
275	6.98	31.09	24.38	1478.
300	6.98	31.12	24.39	1479.
325	6.97	31.13	24.40	1479.
350	6.97	31.15	24.42	1480.

STATION J 12 CRUISE 76-20 CONS # 31
 POSITION 50-31.7N 126-41.0W
 DATE 76/ 4/22 TIME 23:37:24 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.06	30.61	23.99	1474.
10	7.05	30.63	24.00	1474.
20	7.00	30.75	24.10	1474.
30	6.99	30.79	24.13	1474.
50	7.00	30.80	24.14	1474.
75	7.01	30.90	24.22	1475.
100	7.01	30.92	24.23	1475.
125	7.01	30.96	24.26	1476.
150	7.01	30.97	24.28	1476.
175	7.00	31.00	24.30	1477.
200	7.01	31.00	24.30	1477.
225	7.01	31.02	24.31	1478.
250	7.00	31.02	24.32	1478.
275	7.00	31.04	24.33	1478.
300	7.00	31.06	24.35	1479.
325	7.00	31.05	24.34	1479.
350	7.00	31.05	24.34	1480.
375	7.00	31.08	24.36	1480.
400	7.00	31.09	24.37	1480.
425	7.00	31.09	24.37	1481.

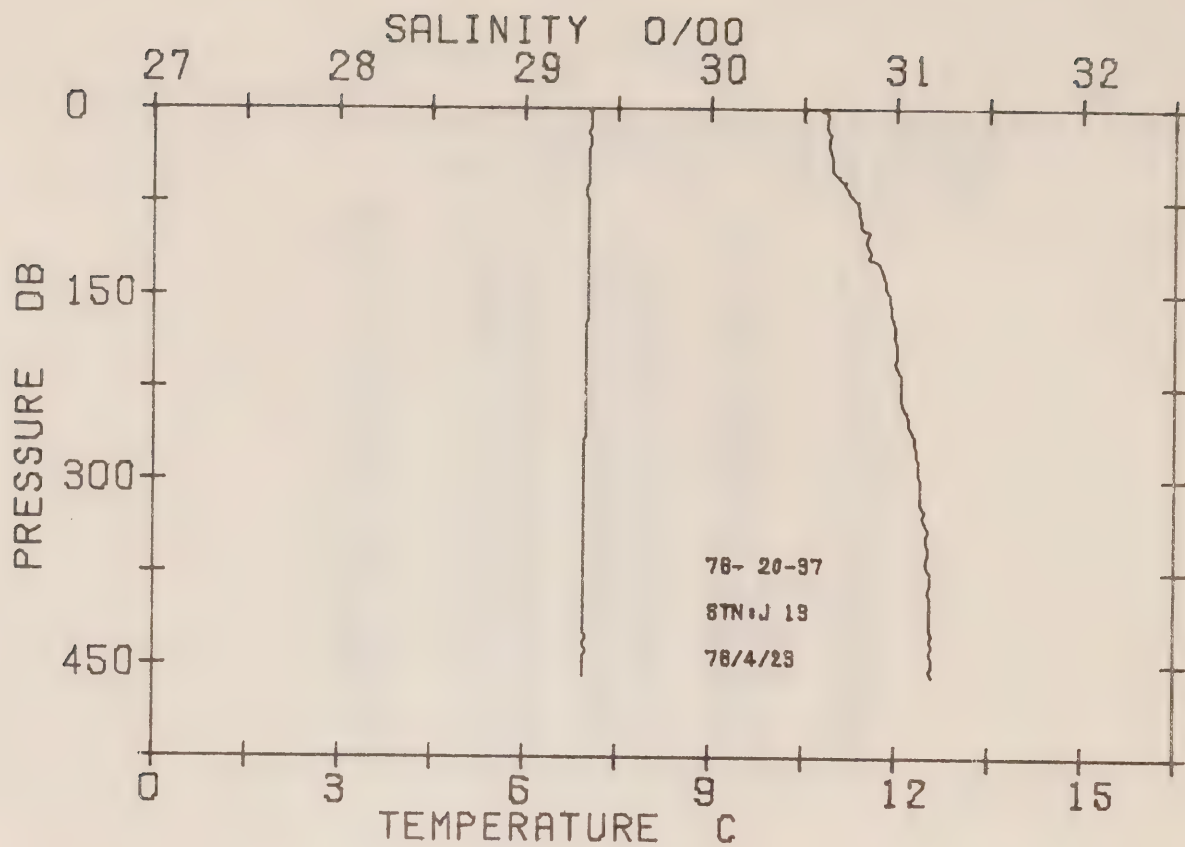


STATION J13 CRUISE 76-20 CONS # 33
 POSITION 50-33.3N 126-47.0W
 DATE 76/ 4/23 TIME 1: 3:18 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.12	30.52	23.90	1474.
10	7.13	30.51	23.90	1474.
20	7.08	30.64	24.00	1474.
30	7.08	30.75	24.09	1474.
50	7.08	30.75	24.09	1475.
75	7.07	30.80	24.13	1475.
100	7.07	30.82	24.15	1475.
125	7.06	30.87	24.19	1476.
150	7.05	30.89	24.21	1476.
175	7.02	30.96	24.26	1477.
200	7.02	30.99	24.29	1477.
225	7.01	31.04	24.33	1478.
250	7.01	31.05	24.34	1478.
275	7.01	31.07	24.35	1478.
300	7.00	31.10	24.37	1479.
325	7.00	31.13	24.40	1479.
350	7.00	31.14	24.41	1480.
375	7.00	31.16	24.43	1480.
400	6.99	31.18	24.44	1481.
425	6.99	31.20	24.46	1481.
450	6.99	31.21	24.47	1481.

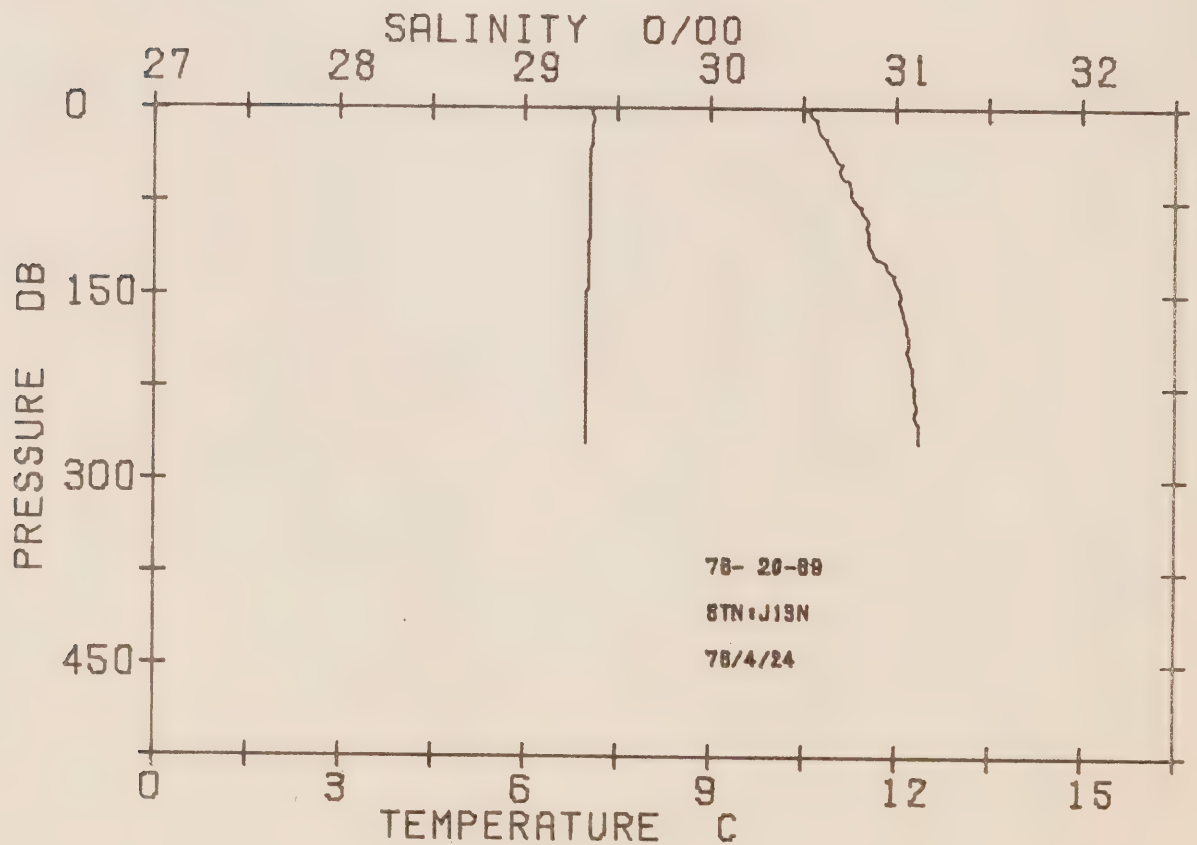
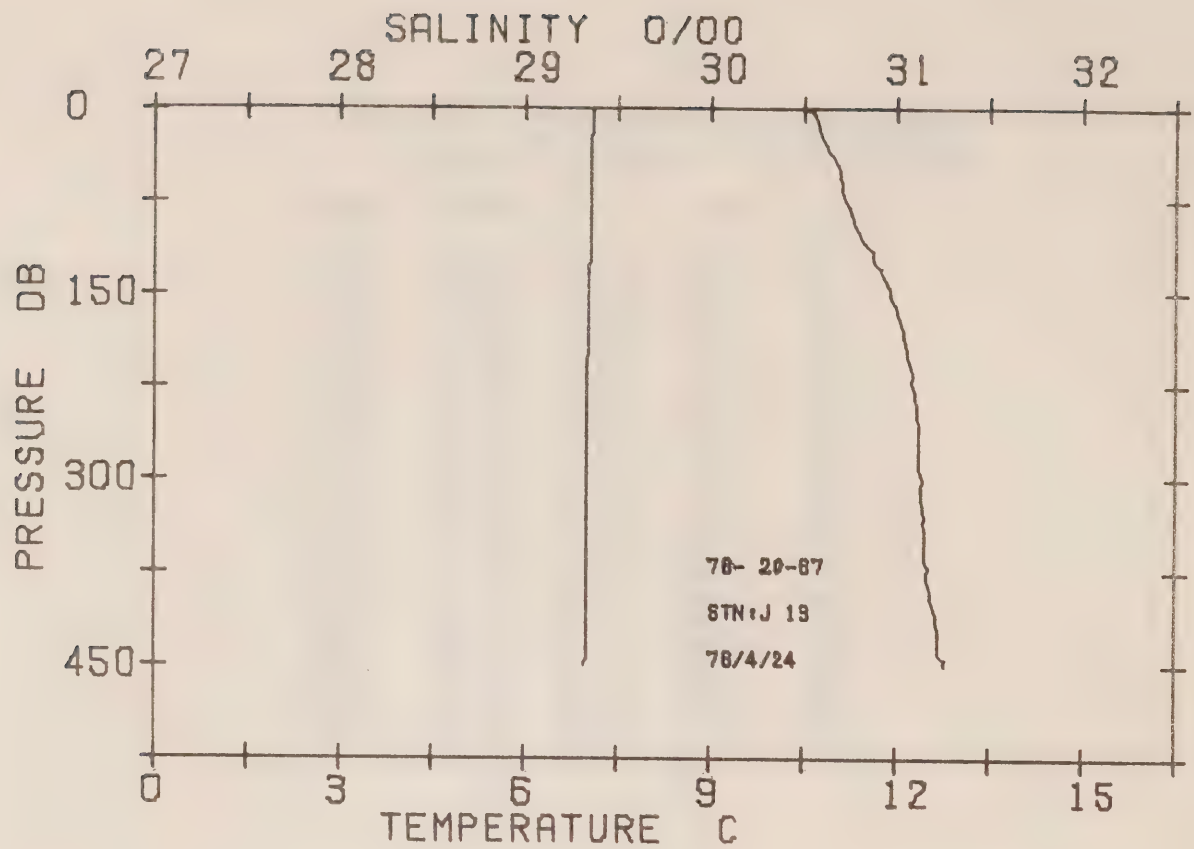
STATION J 14 CRUISE 76-20 CONS # 35
 POSITION 50-34.0N 126-52.5W
 DATE 76/ 4/23 TIME 3:12:53 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.06	30.80	24.14	1474.
10	7.07	30.83	24.16	1474.
20	7.04	30.86	24.19	1474.
30	7.04	30.86	24.19	1474.
50	7.03	30.92	24.23	1475.
75	7.02	30.96	24.26	1475.
100	7.01	31.02	24.31	1476.
125	7.00	31.09	24.37	1476.



STATION J 13 CRUISE 76-20 CONS # 37
 POSITION 50-33.3N 126-47.0W
 DATE 76/ 4/23 TIME 4:17:27 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.05	30.62	24.00	1473.
10	7.05	30.63	24.00	1474.
20	7.04	30.65	24.01	1474.
30	7.05	30.64	24.01	1474.
50	7.04	30.66	24.03	1474.
75	7.02	30.79	24.13	1475.
100	7.04	30.85	24.17	1475.
125	7.03	30.92	24.23	1476.
150	7.02	30.97	24.27	1476.
175	7.01	31.00	24.30	1477.
200	7.01	31.01	24.30	1477.
225	7.01	31.03	24.33	1478.
250	7.00	31.07	24.36	1478.
275	6.98	31.11	24.39	1478.
300	6.98	31.14	24.41	1479.
325	6.98	31.16	24.43	1479.
350	6.98	31.17	24.44	1480.
375	6.98	31.19	24.45	1480.
400	6.98	31.19	24.45	1480.
425	6.98	31.20	24.45	1481.
450	6.98	31.20	24.45	1481.

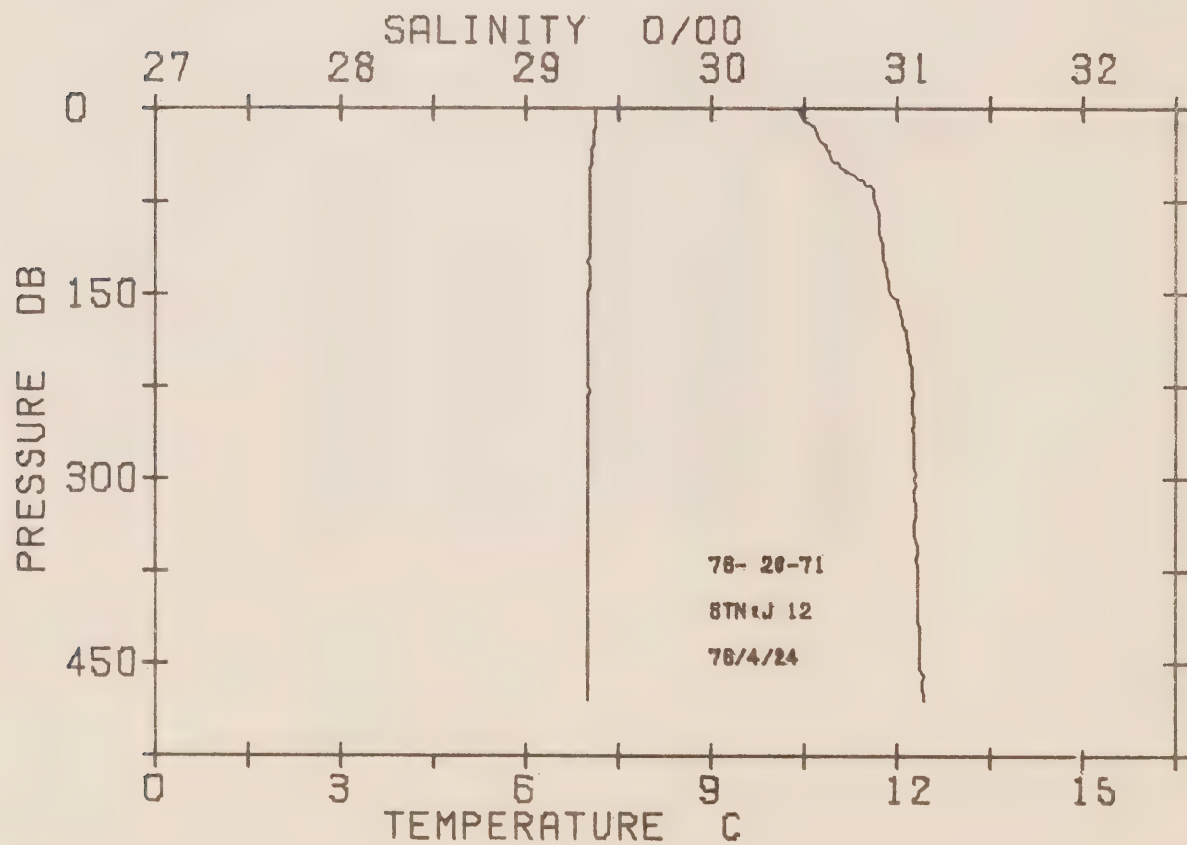
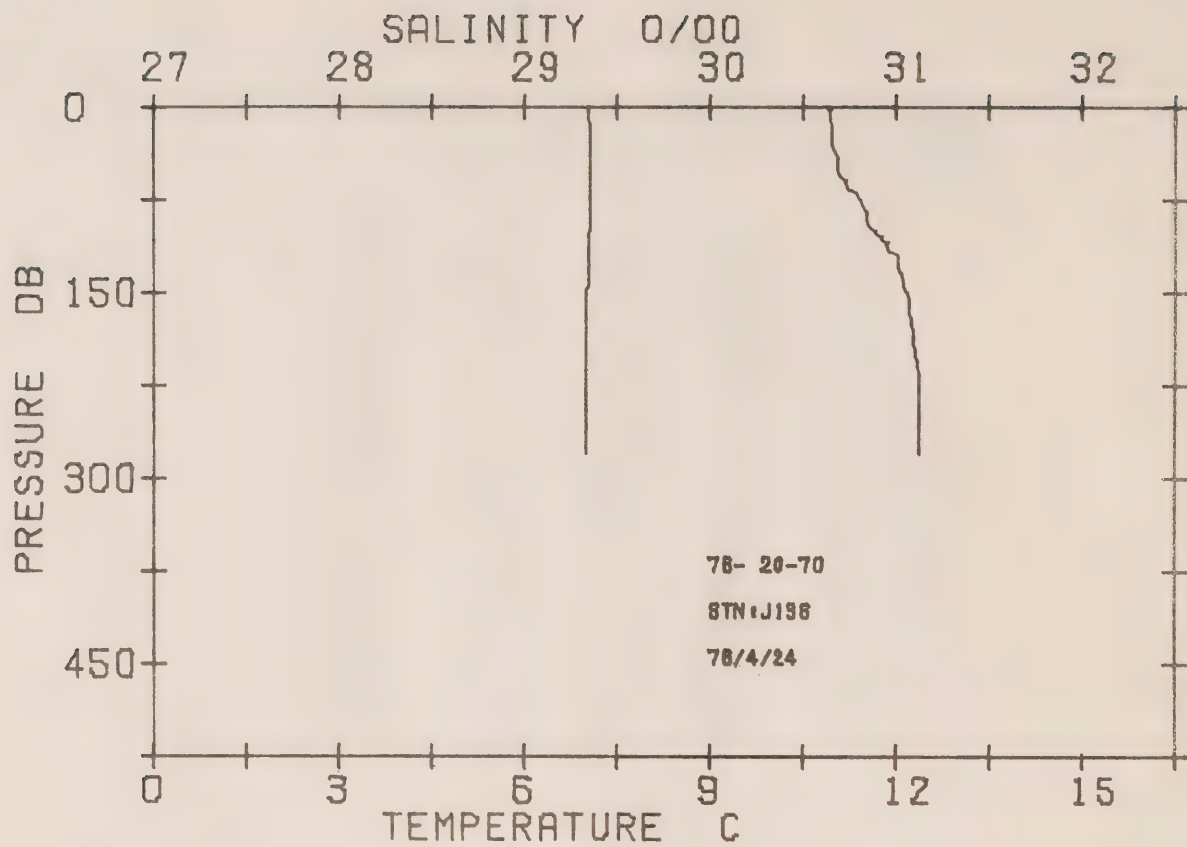


STATION J 13 CRUISE 76-20 CONS # 67
 POSITION 50-33.3N 126-47.0W
 DATE 76/ 4/24 TIME 3:54: 5 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.09	30.52	23.91	1474.
10	7.09	30.57	23.95	1474.
20	7.08	30.59	23.96	1474.
30	7.07	30.62	23.99	1474.
50	7.06	30.70	24.05	1474.
75	7.06	30.73	24.08	1475.
100	7.06	30.80	24.13	1475.
125	7.05	30.89	24.21	1476.
150	7.03	30.97	24.27	1476.
175	7.02	31.03	24.32	1477.
200	7.02	31.06	24.35	1477.
225	7.01	31.09	24.37	1478.
250	7.00	31.11	24.39	1478.
275	7.00	31.12	24.39	1478.
300	6.99	31.15	24.41	1479.
325	6.99	31.15	24.42	1479.
350	6.99	31.16	24.42	1480.
375	6.99	31.17	24.43	1480.
400	6.99	31.20	24.46	1481.
425	6.99	31.23	24.48	1481.
450	6.98	31.26	24.51	1481.

STATION J13N CRUISE 76-20 CONS # 69
 POSITION 50-33.5N 126-46.9W
 DATE 76/ 4/24 TIME 4:51:53 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.08	30.53	23.92	1474.
10	7.11	30.57	23.95	1474.
20	7.10	30.59	23.97	1474.
30	7.08	30.64	24.01	1474.
50	7.06	30.70	24.06	1474.
75	7.06	30.78	24.12	1475.
100	7.05	30.85	24.17	1475.
125	7.03	30.95	24.26	1476.
150	7.01	31.03	24.32	1476.
175	7.01	31.06	24.34	1477.
200	7.00	31.07	24.35	1477.
225	7.00	31.10	24.38	1478.
250	7.00	31.10	24.38	1478.

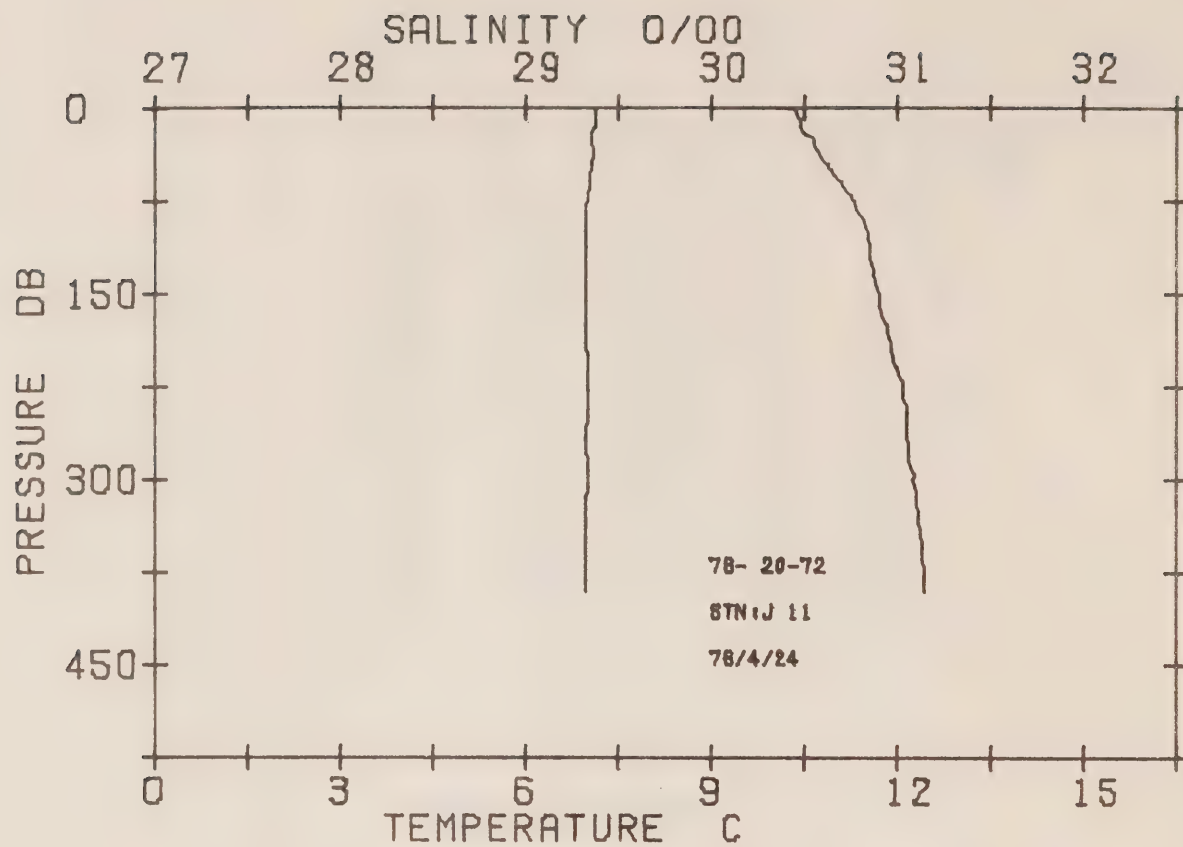


STATION J13S CRUISE 76-20 CONS # 70
 POSITION 50-32.9N 126-47.4W
 DATE 76/ 4/24 TIME 5:15: 4 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.03	30.64	24.02	1473.
10	7.04	30.65	24.02	1474.
20	7.05	30.66	24.03	1474.
30	7.06	30.66	24.02	1474.
50	7.06	30.69	24.05	1474.
75	7.06	30.81	24.15	1475.
100	7.05	30.89	24.21	1475.
125	7.02	31.01	24.30	1476.
150	7.01	31.06	24.34	1476.
175	7.01	31.08	24.36	1477.
200	7.01	31.10	24.38	1477.
225	7.01	31.12	24.40	1478.
250	7.01	31.12	24.40	1478.
275	7.01	31.12	24.39	1478.

STATION J 12 CRUISE 76-20 CONS # 71
 POSITION 50-31.7N 126-41.0W
 DATE 76/ 4/24 TIME 6: 2:44 PST

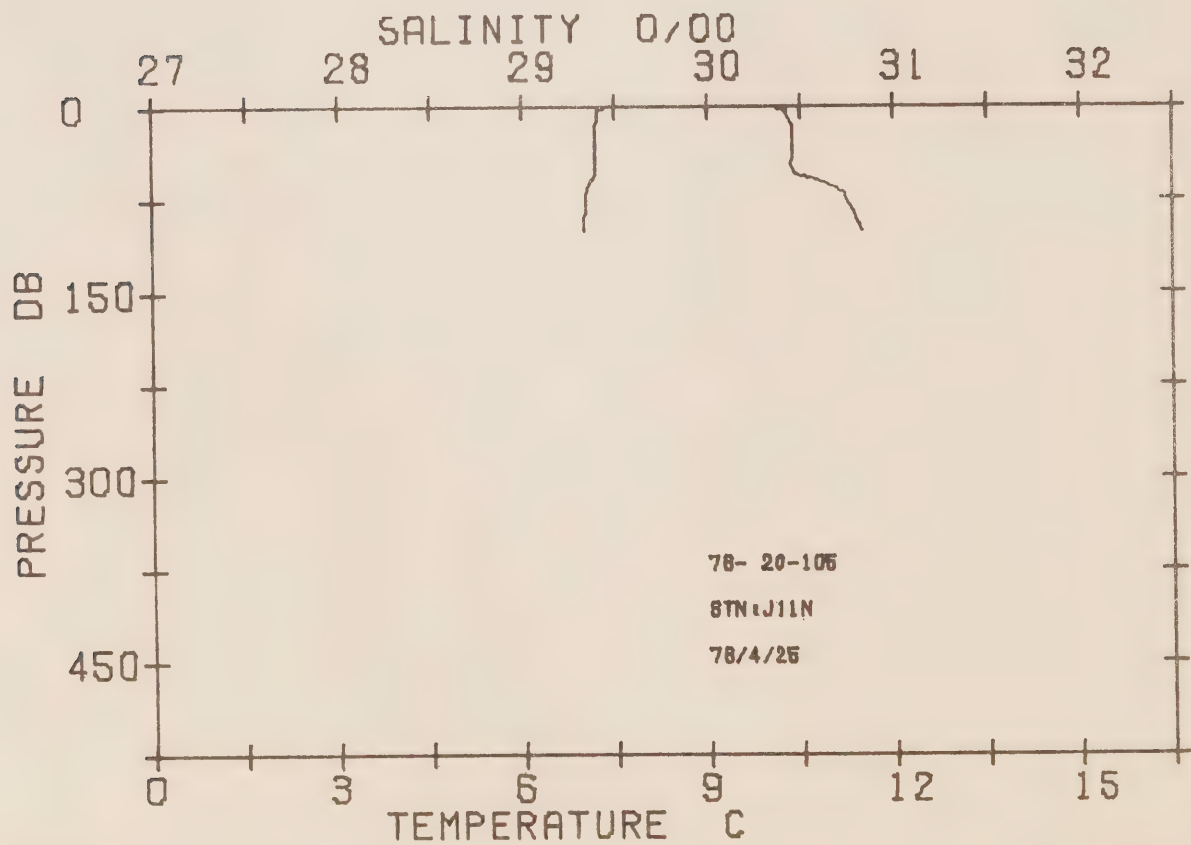
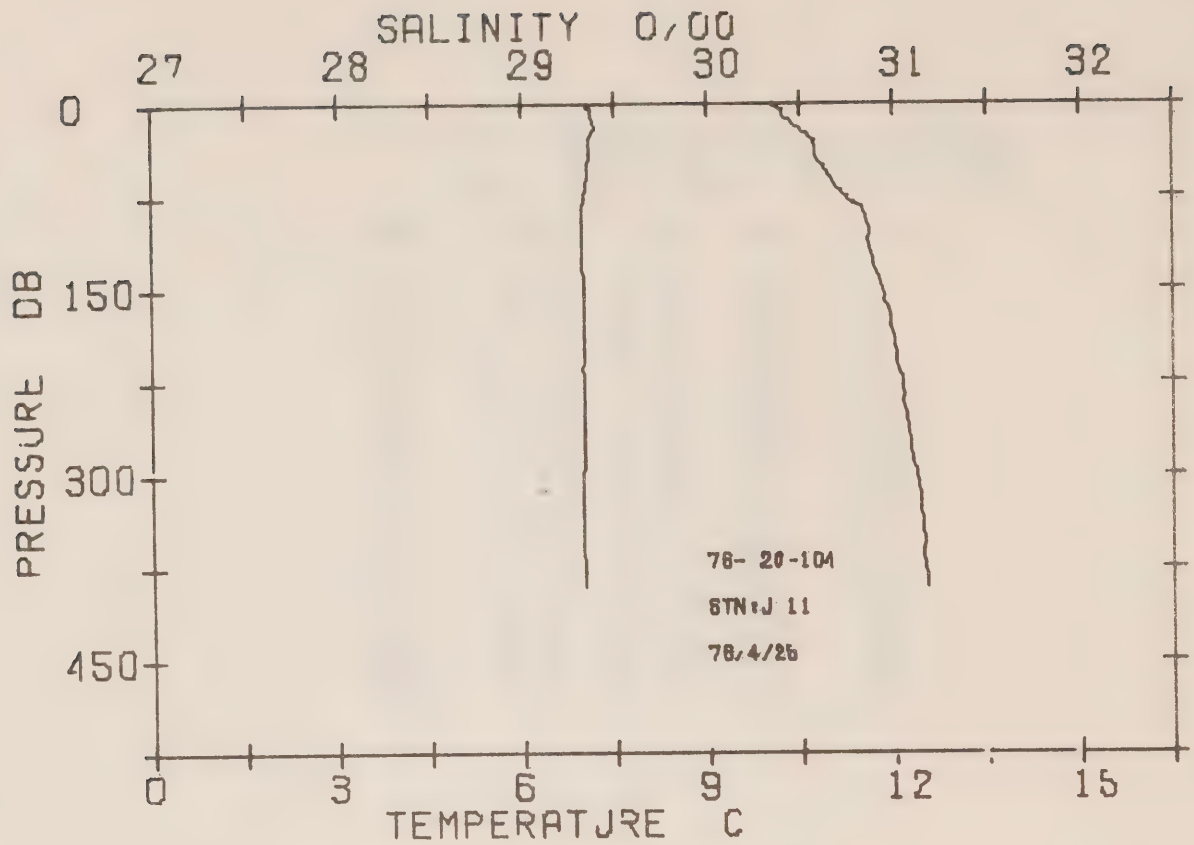
DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.12	30.48	23.87	1474.
10	7.12	30.50	23.89	1474.
20	7.10	30.57	23.95	1474.
30	7.08	30.61	23.99	1474.
50	7.04	30.72	24.07	1474.
75	7.02	30.89	24.21	1475.
100	7.02	30.91	24.23	1475.
125	7.01	30.94	24.25	1476.
150	7.01	30.97	24.28	1476.
175	7.01	31.03	24.32	1477.
200	7.01	31.07	24.35	1477.
225	7.01	31.08	24.36	1478.
250	7.01	31.09	24.36	1478.
275	7.01	31.09	24.37	1478.
300	7.01	31.09	24.37	1479.
325	7.01	31.10	24.37	1479.
350	7.01	31.10	24.38	1480.
375	7.01	31.11	24.38	1480.
400	7.01	31.11	24.39	1480.
425	7.01	31.12	24.39	1481.
450	7.00	31.13	24.40	1481.
475	7.00	31.15	24.42	1482.



STATION J 11 CRUISE 76-20 CONS # 72
 POSITION 50-30.0N 126-30.0W
 DATE 76/ 4/24 TIME 7:14:11 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.11	30.44	23.84	1474.
10	7.12	30.48	23.87	1474.
20	7.07	30.50	23.90	1474.
30	7.07	30.55	23.94	1474.
50	7.05	30.65	24.02	1474.
75	6.99	30.77	24.12	1475.
100	6.97	30.84	24.18	1475.
125	6.97	30.86	24.19	1476.
150	6.97	30.91	24.23	1476.
175	6.98	30.95	24.26	1477.
200	6.99	30.98	24.28	1477.
225	7.00	31.03	24.32	1478.
250	7.00	31.05	24.34	1478.
275	6.98	31.06	24.35	1478.
300	6.99	31.08	24.37	1479.
325	6.98	31.11	24.39	1479.
350	6.98	31.14	24.41	1480.
375	6.97	31.15	24.42	1480.

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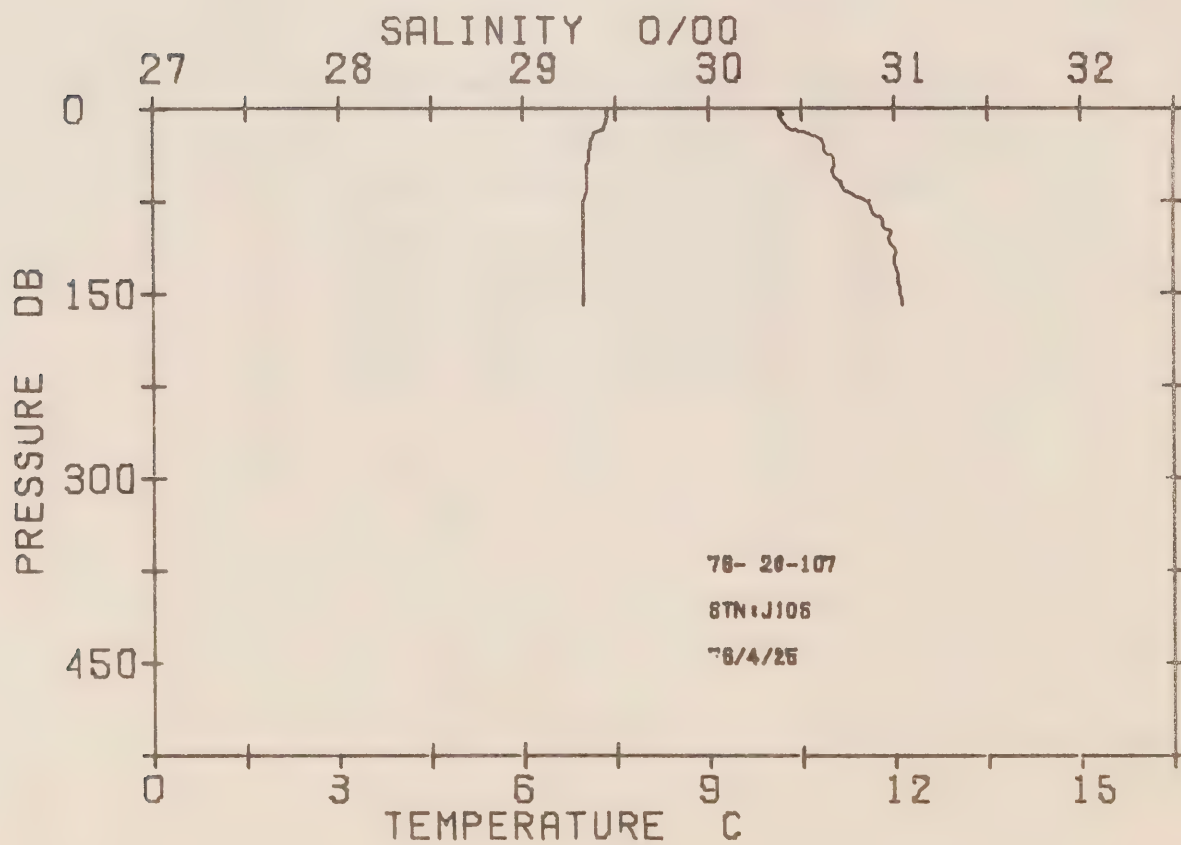
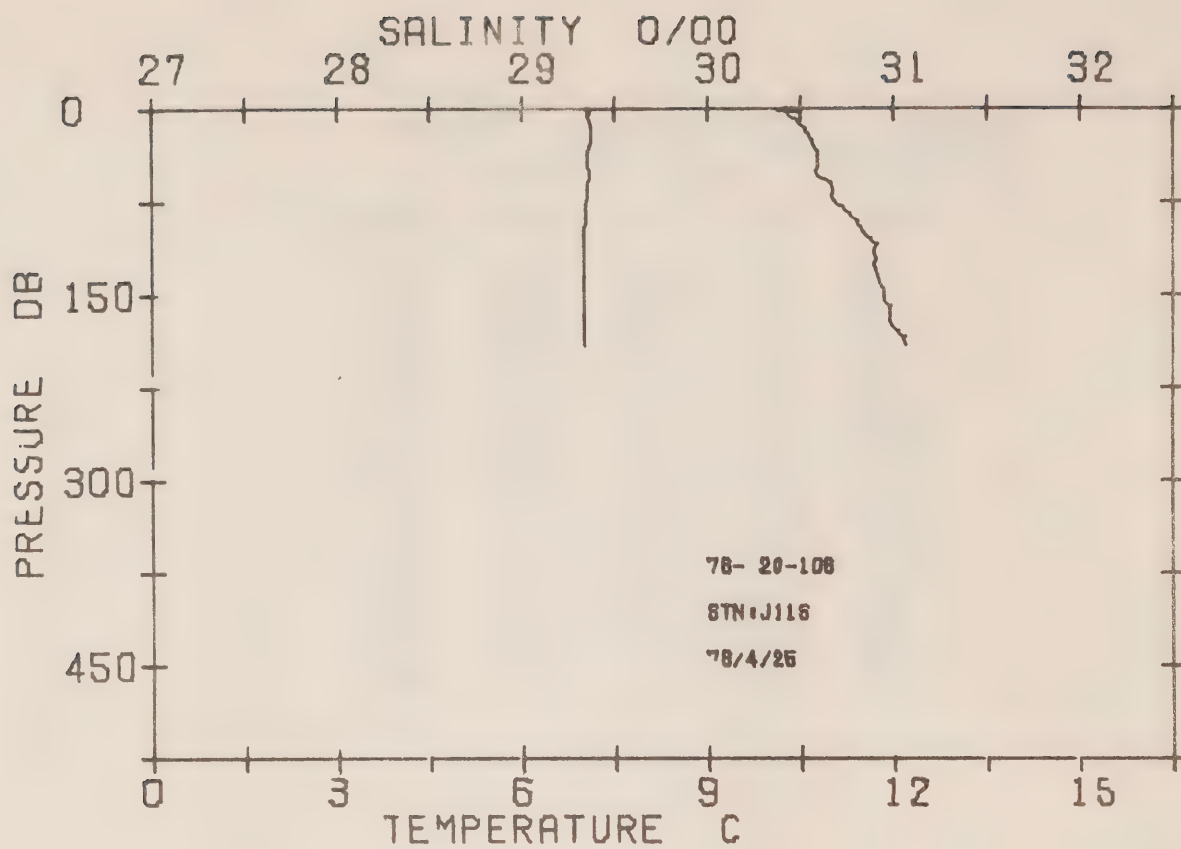


STATION J 11 CRUISE 76-20 CONS #104
 POSITION 50-30.0N 126-30.0W
 DATE 76/ 4/25 TIME 8: 3:45 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.05	30.36	23.79	1473.
10	7.12	30.41	23.82	1474.
20	7.18	30.50	23.88	1474.
30	7.10	30.57	23.95	1474.
50	7.07	30.62	23.99	1474.
75	7.01	30.75	24.10	1475.
100	6.98	30.87	24.20	1475.
125	6.98	30.90	24.22	1476.
150	6.99	30.95	24.26	1476.
175	6.99	30.99	24.29	1477.
200	6.99	31.02	24.31	1477.
225	6.99	31.05	24.34	1477.
250	6.99	31.07	24.35	1478.
275	6.99	31.09	24.37	1478.
300	6.98	31.13	24.41	1479.
325	6.98	31.15	24.42	1479.
350	6.98	31.17	24.43	1480.
375	6.99	31.17	24.44	1480.

STATION J11N CRUISE 76-20 CONS #105
 POSITION 50-30.7N 126-30.0W
 DATE 76/ 4/25 TIME 8:29: 4 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.23	30.42	23.81	1474.
10	7.21	30.44	23.83	1474.
20	7.20	30.46	23.85	1474.
30	7.20	30.46	23.85	1474.
50	7.20	30.46	23.85	1475.
75	7.04	30.75	24.10	1475.
100	7.00	30.83	24.17	1475.

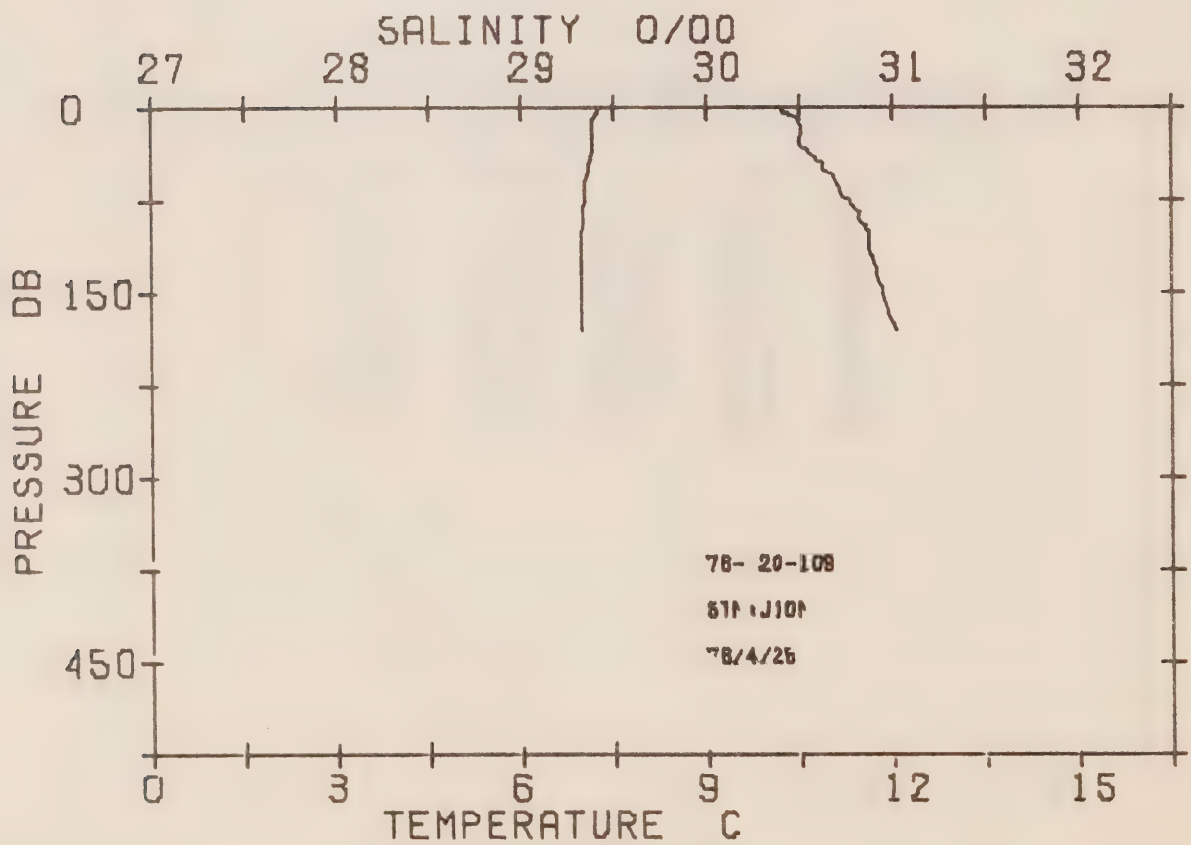
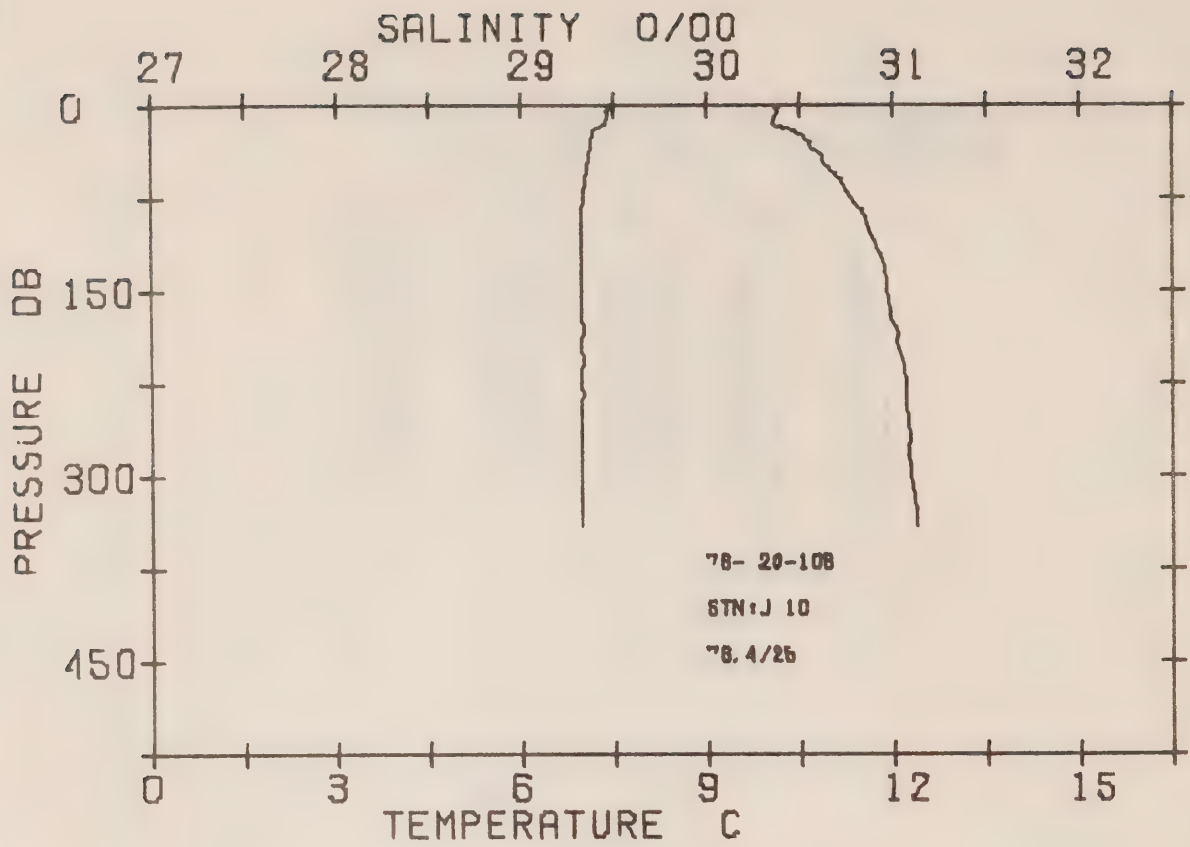


STATION J11S CRUISE 76-20 CONS #106
 POSITION 50-29.4N 126-30.0W
 DATE 76/ 4/25 TIME 8:55:40 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.07	30.41	23.83	1473.
10	7.08	30.48	23.88	1474.
20	7.12	30.54	23.92	1474.
30	7.09	30.57	23.95	1474.
50	7.08	30.58	23.96	1474.
75	7.04	30.69	24.05	1475.
100	7.00	30.84	24.17	1475.
125	6.99	30.90	24.22	1476.
150	6.99	30.95	24.26	1476.
175	6.99	30.99	24.29	1477.

STATION J10S CRUISE 76-20 CONS #107
 POSITION 50-29.2N 126-19.2W
 DATE 76/ 4/25 TIME 12:12:55 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.38	30.37	23.75	1475.
10	7.35	30.40	23.78	1475.
20	7.17	30.54	23.91	1474.
30	7.09	30.62	23.99	1474.
50	7.04	30.67	24.04	1474.
75	6.98	30.86	24.19	1475.
100	6.97	30.98	24.29	1475.
125	6.98	31.00	24.30	1476.
150	6.98	31.03	24.33	1476.

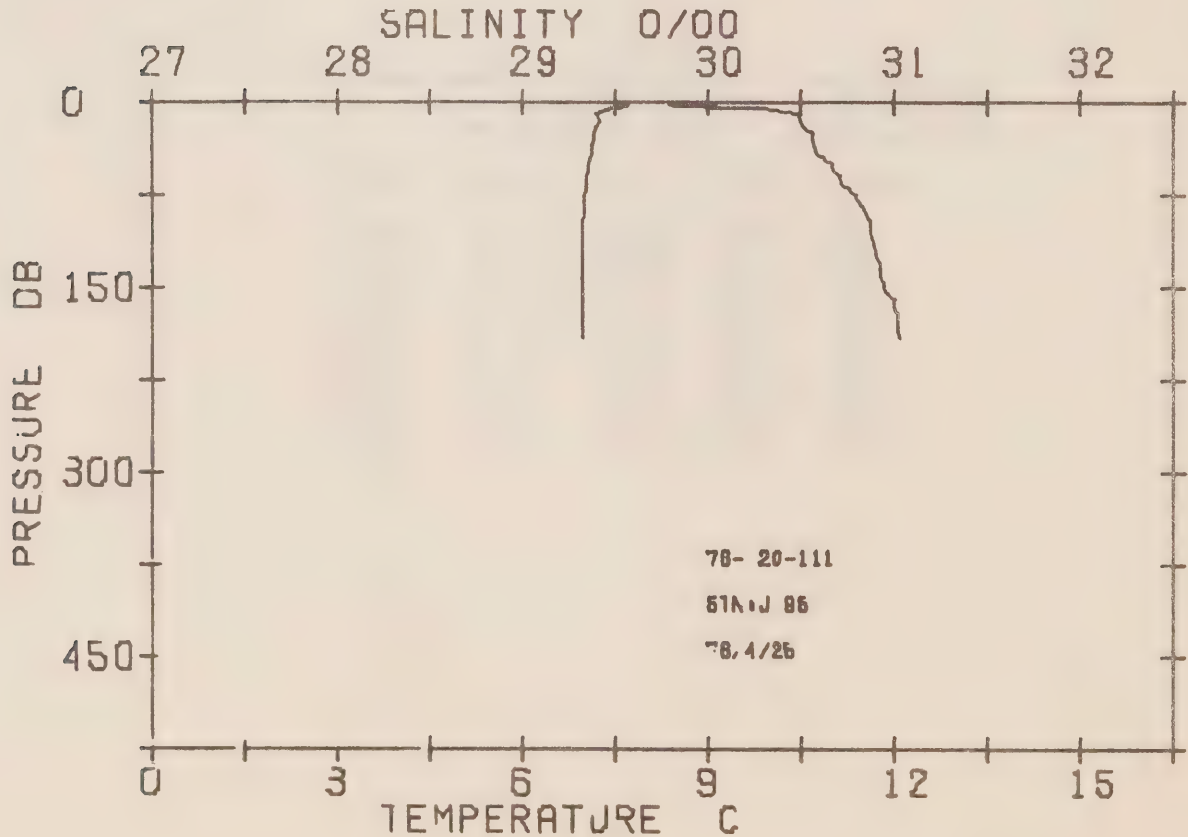
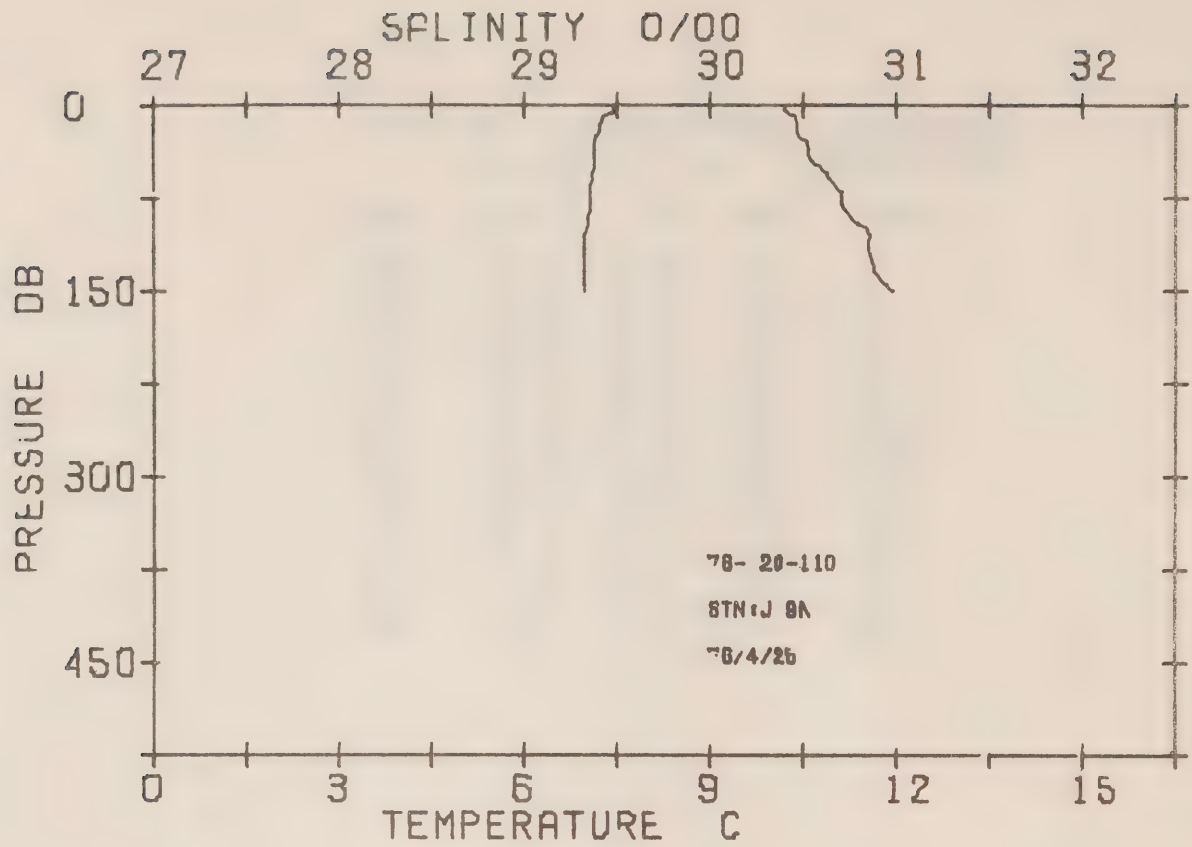


STATION J 10 CRUISE 76-20 CONS #108
 POSITION 50-29.7N 126-18.7W
 DATE 76/ 4/25 TIME 12:31:26 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.45	30.39	23.76	1475.
10	7.42	30.36	23.74	1475.
20	7.16	30.48	23.87	1474.
30	7.14	30.55	23.92	1474.
50	7.06	30.66	24.03	1474.
75	7.00	30.78	24.13	1475.
100	6.97	30.87	24.20	1475.
125	6.97	30.95	24.27	1476.
150	6.98	30.97	24.28	1476.
175	6.98	31.00	24.30	1477.
200	6.98	31.04	24.33	1477.
225	6.98	31.07	24.36	1477.
250	6.98	31.08	24.36	1478.
275	6.97	31.08	24.37	1478.
300	6.97	31.09	24.37	1479.
325	6.97	31.12	24.40	1479.

STATION J10N CRUISE 76-20 CONS #109
 POSITION 50-30.5N 126-18.4W
 DATE 76/ 4/25 TIME 12:57:50 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.26	30.41	23.81	1474.
10	7.17	30.49	23.88	1474.
20	7.16	30.51	23.89	1474.
30	7.17	30.50	23.89	1474.
50	7.08	30.63	24.00	1474.
75	7.02	30.77	24.12	1475.
100	6.98	30.87	24.20	1475.
125	6.98	30.91	24.23	1476.
150	6.97	30.95	24.26	1476.
175	6.97	31.01	24.31	1477.

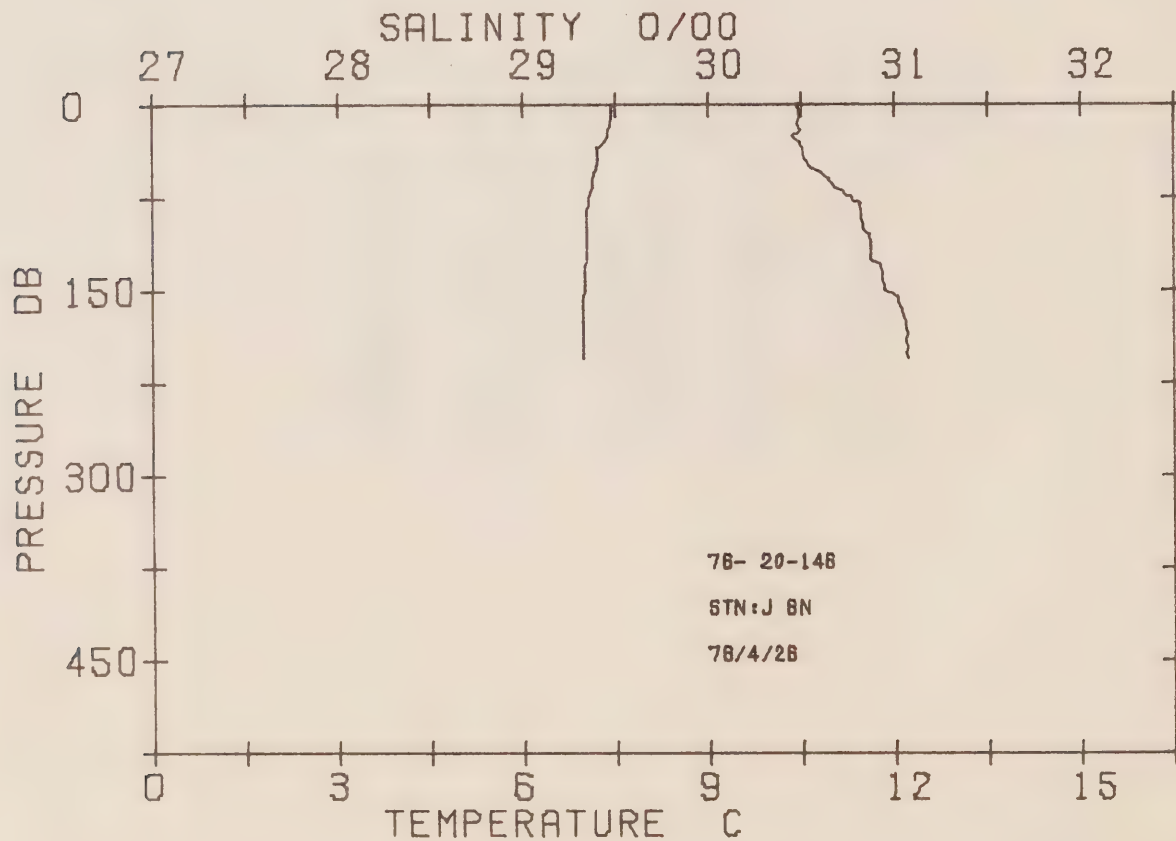
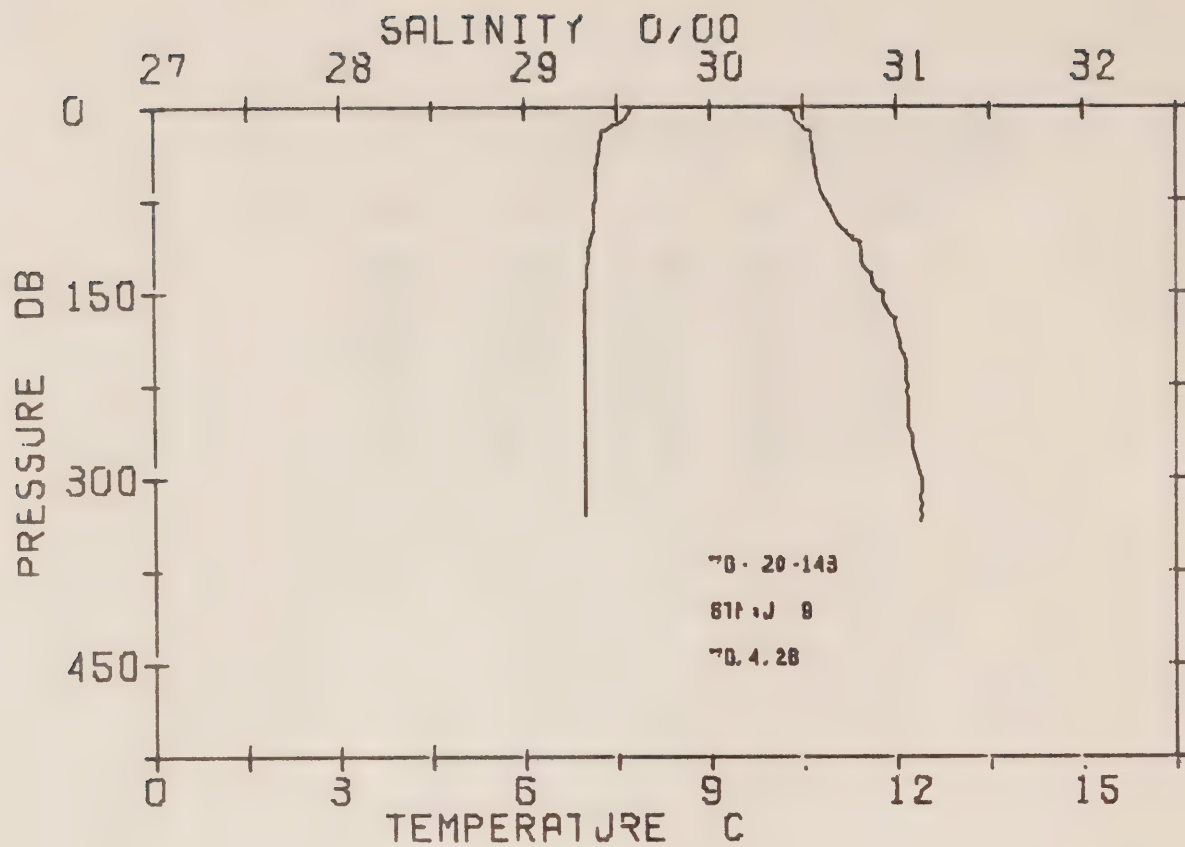


STATION J 9N CRUISE 76-20 CONS #110
 POSITION 50-29.1N 126-10.5W
 DATE 76/ 4/25 TIME 13:49:23 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.48	30.40	23.77	1475.
10	7.28	30.46	23.84	1474.
20	7.22	30.47	23.85	1474.
30	7.13	30.52	23.91	1474.
50	7.11	30.59	23.96	1475.
75	7.06	30.71	24.06	1475.
100	6.99	30.84	24.17	1475.
125	6.98	30.87	24.20	1476.
150	6.97	30.98	24.28	1476.

STATION J 9S CRUISE 76-20 CONS #111
 POSITION 50-28.0N 126-11.0W
 DATE 76/ 4/25 TIME 14:13:50 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.54	30.04	23.47	1475.
10	7.20	30.49	23.87	1474.
20	7.20	30.52	23.90	1474.
30	7.16	30.56	23.93	1474.
50	7.05	30.67	24.04	1474.
75	7.01	30.79	24.13	1475.
100	6.97	30.87	24.20	1475.
125	6.96	30.91	24.24	1476.
150	6.96	30.95	24.26	1476.
175	6.97	31.02	24.32	1477.

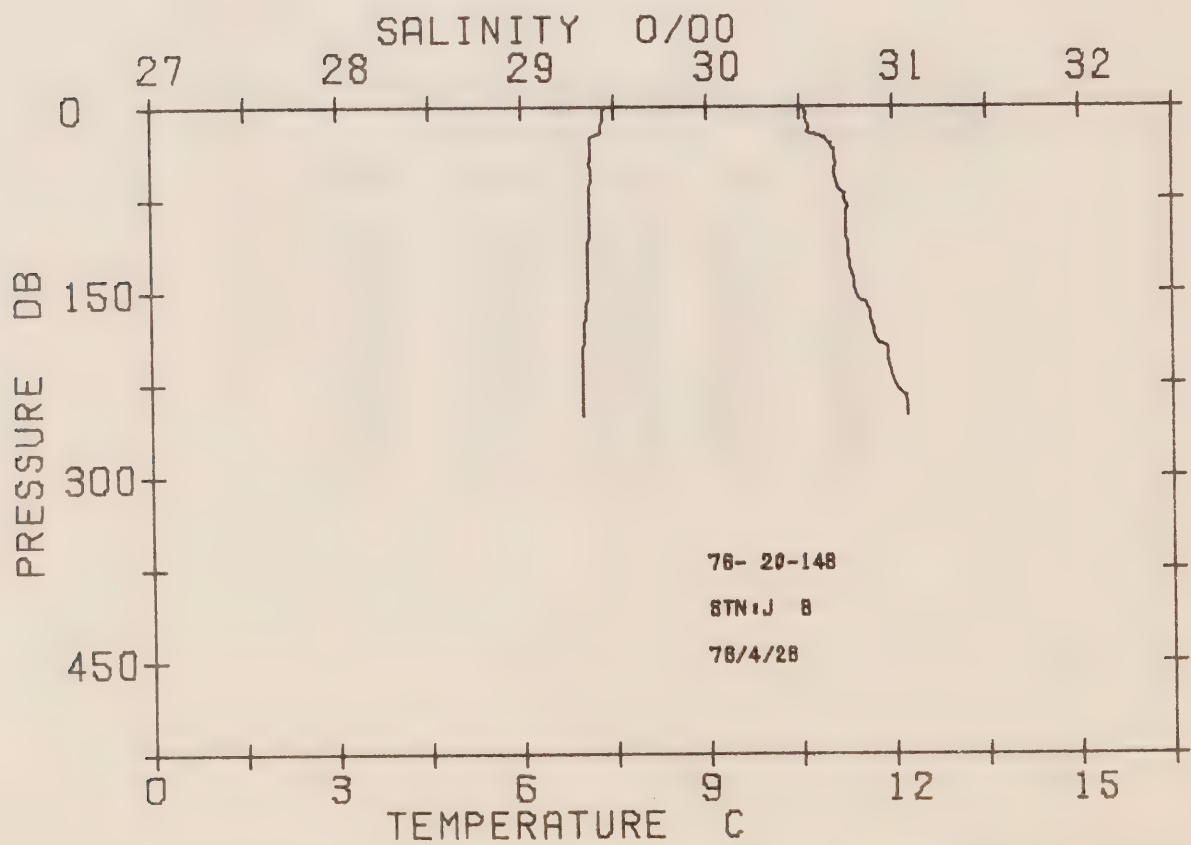
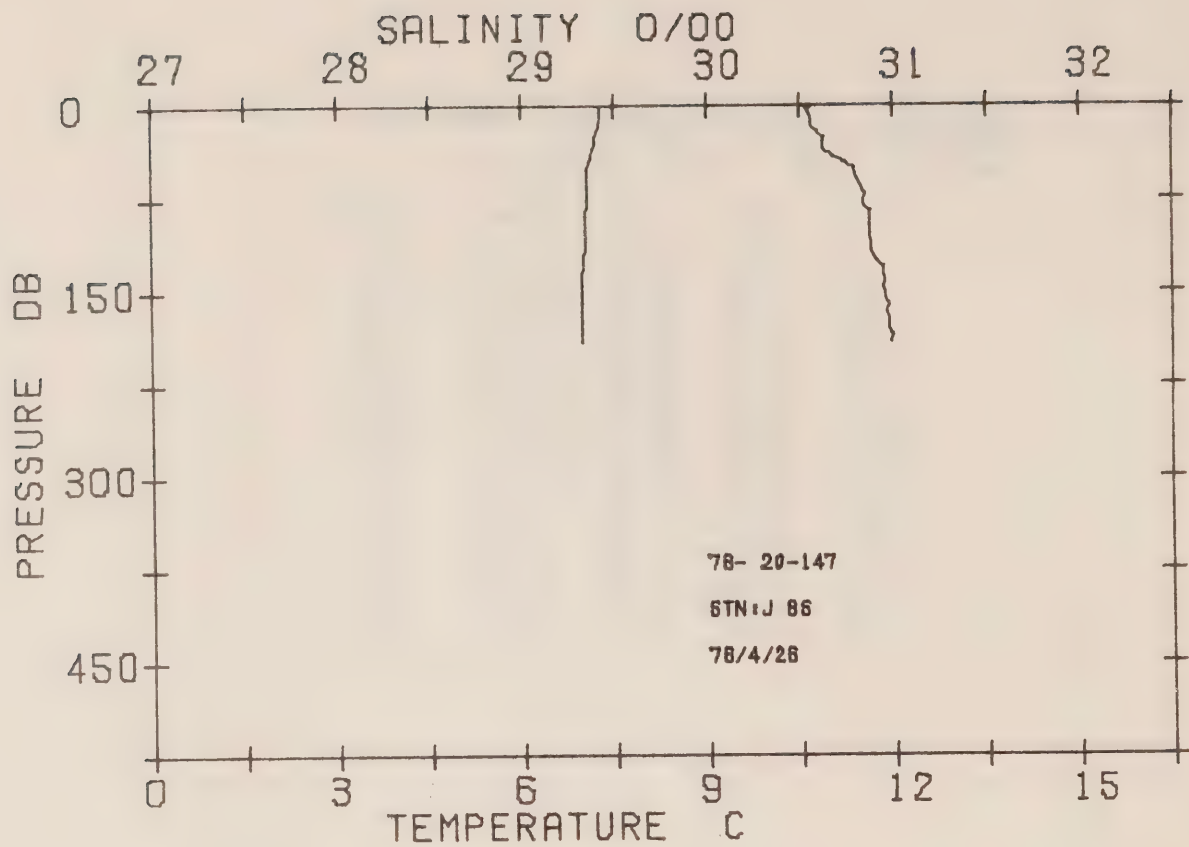


STATION J 9 CRUISE 76-20 CONS #143
 POSITION 50-28.5N 126-10.7W
 DATE 76/ 4/26 TIME 16: 5:53 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.74	30.42	23.75	1476.
10	7.66	30.46	23.79	1476.
20	7.26	30.54	23.90	1475.
30	7.22	30.55	23.92	1475.
50	7.17	30.57	23.94	1475.
75	7.15	30.63	23.99	1475.
100	7.11	30.73	24.08	1476.
125	7.03	30.81	24.14	1476.
150	6.97	30.93	24.25	1476.
175	6.97	30.99	24.29	1476.
200	6.97	31.04	24.33	1477.
225	6.97	31.06	24.35	1477.
250	6.97	31.06	24.35	1478.
275	6.98	31.08	24.37	1478.
300	6.97	31.14	24.41	1479.
325	6.97	31.13	24.41	1479.

STATION J 8N CRUISE 76-20 CONS #146
 POSITION 50-28.2N 126- 2.9W
 DATE 76/ 4/26 TIME 17:28:30 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.44	30.49	23.84	1475.
10	7.43	30.49	23.84	1475.
20	7.38	30.50	23.86	1475.
30	7.31	30.49	23.86	1475.
50	7.20	30.55	23.92	1475.
75	7.07	30.77	24.11	1475.
100	7.04	30.83	24.16	1475.
125	7.02	30.88	24.20	1476.
150	7.00	30.95	24.26	1476.
175	6.97	31.06	24.35	1477.
200	6.97	31.06	24.35	1477.

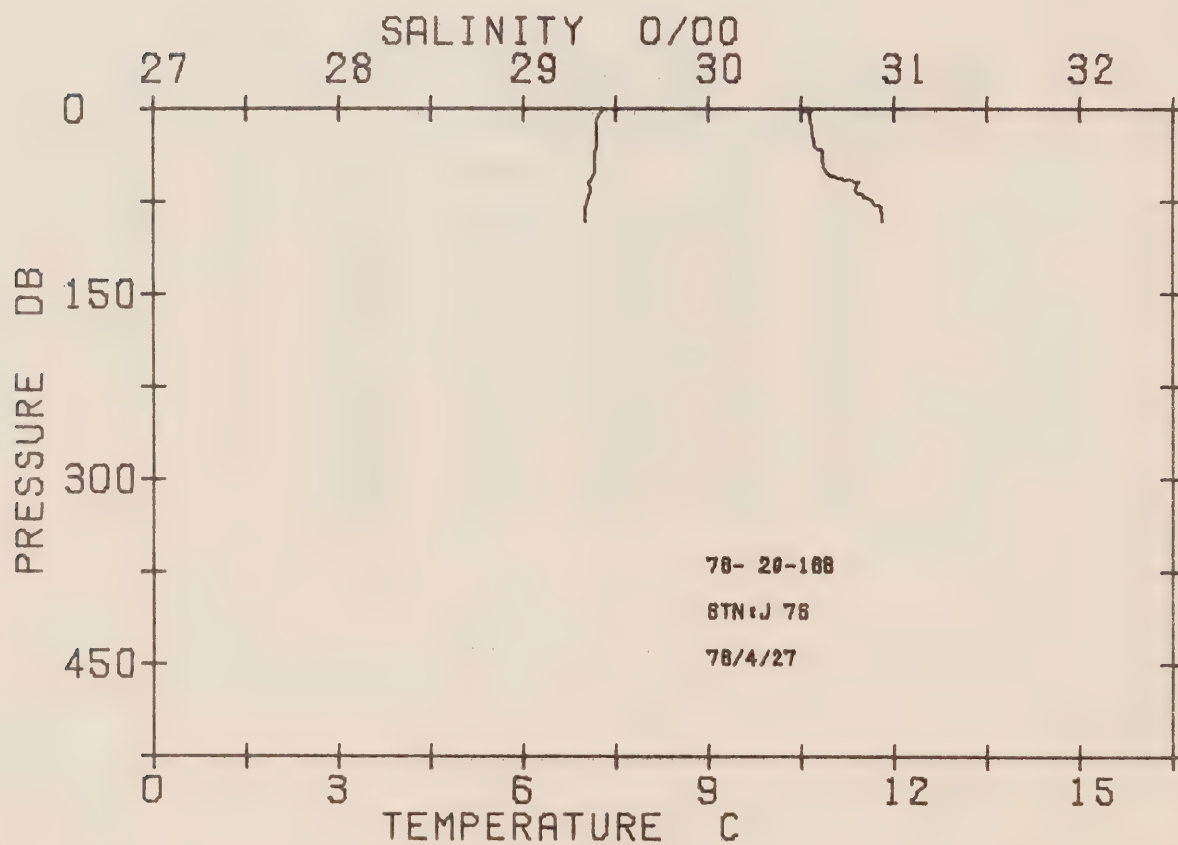
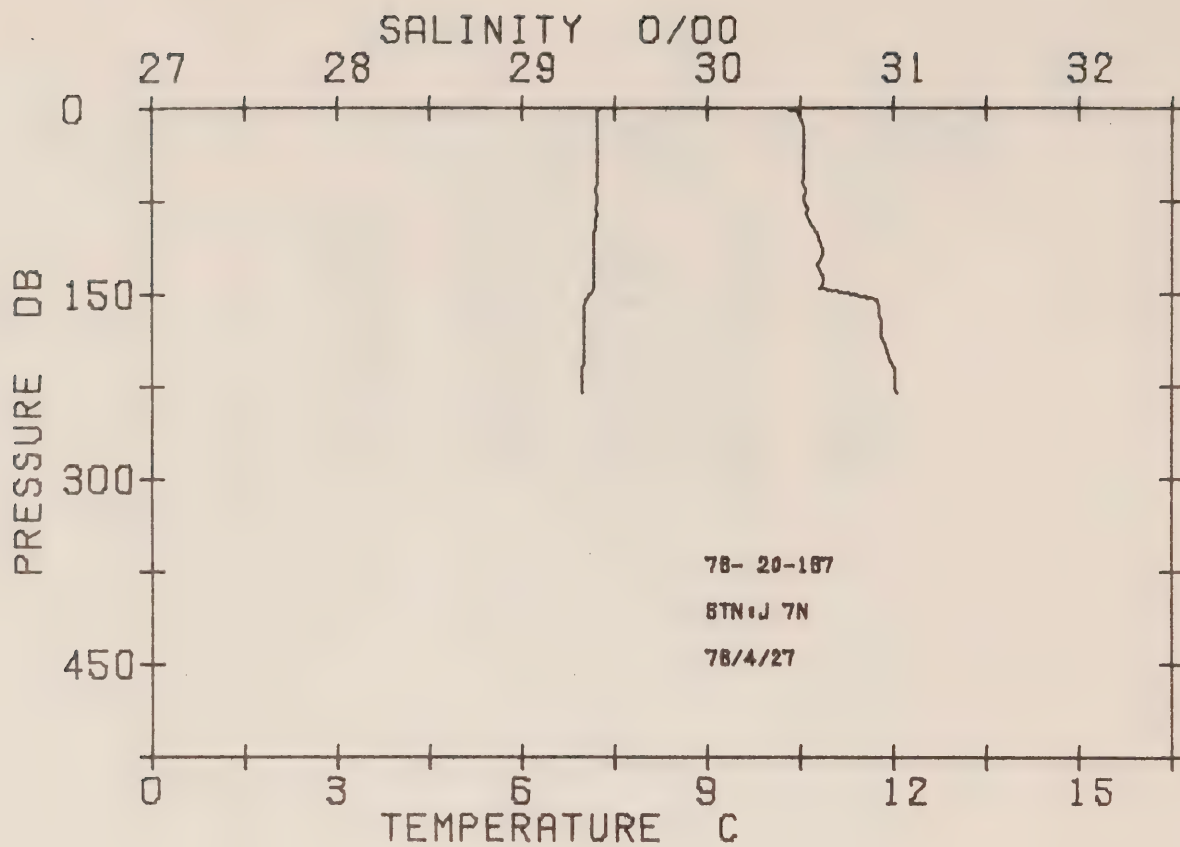


STATION J 8S CRUISE 76-20 CONS #147
 POSITION 50-27.0N 126- 4.1W
 DATE 76/ 4/26 TIME 17:52:30 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.29	30.54	23.90	1474.
10	7.29	30.56	23.91	1475.
20	7.21	30.59	23.95	1474.
30	7.18	30.62	23.98	1475.
50	7.07	30.79	24.13	1475.
75	7.05	30.84	24.17	1475.
100	7.03	30.87	24.19	1475.
125	7.00	30.92	24.24	1476.
150	6.98	30.96	24.27	1476.
175	6.97	30.98	24.29	1477.

STATION J 8 CRUISE 76-20 CONS #148
 POSITION 50-27.5N 126- 3.4W
 DATE 76/ 4/26 TIME 19: 0:23 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.33	30.52	23.88	1474.
10	7.32	30.53	23.89	1475.
20	7.28	30.54	23.90	1475.
30	7.12	30.67	24.02	1474.
50	7.11	30.69	24.05	1475.
75	7.09	30.74	24.08	1475.
100	7.08	30.75	24.09	1475.
125	7.07	30.77	24.11	1476.
150	7.05	30.80	24.14	1476.
175	7.01	30.89	24.21	1477.
200	6.98	30.97	24.28	1477.
225	6.97	31.01	24.31	1477.
250	6.96	31.07	24.36	1478.

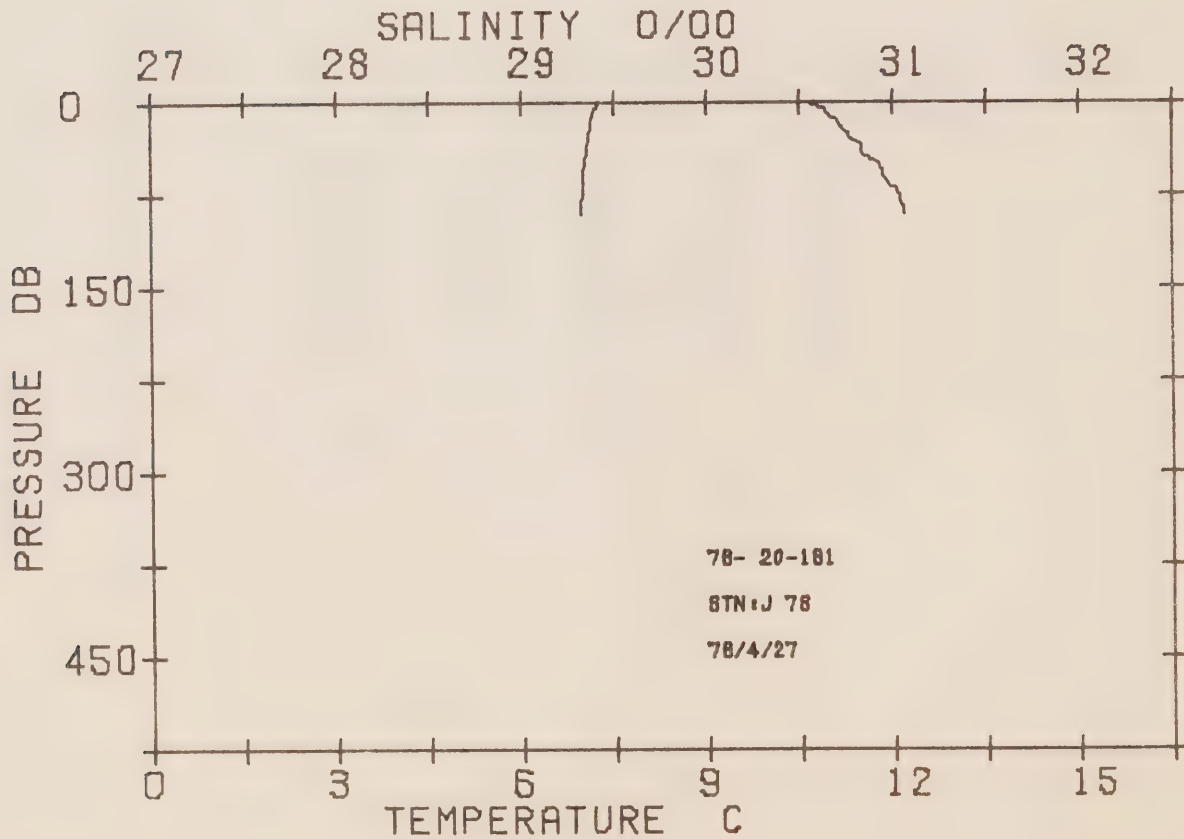
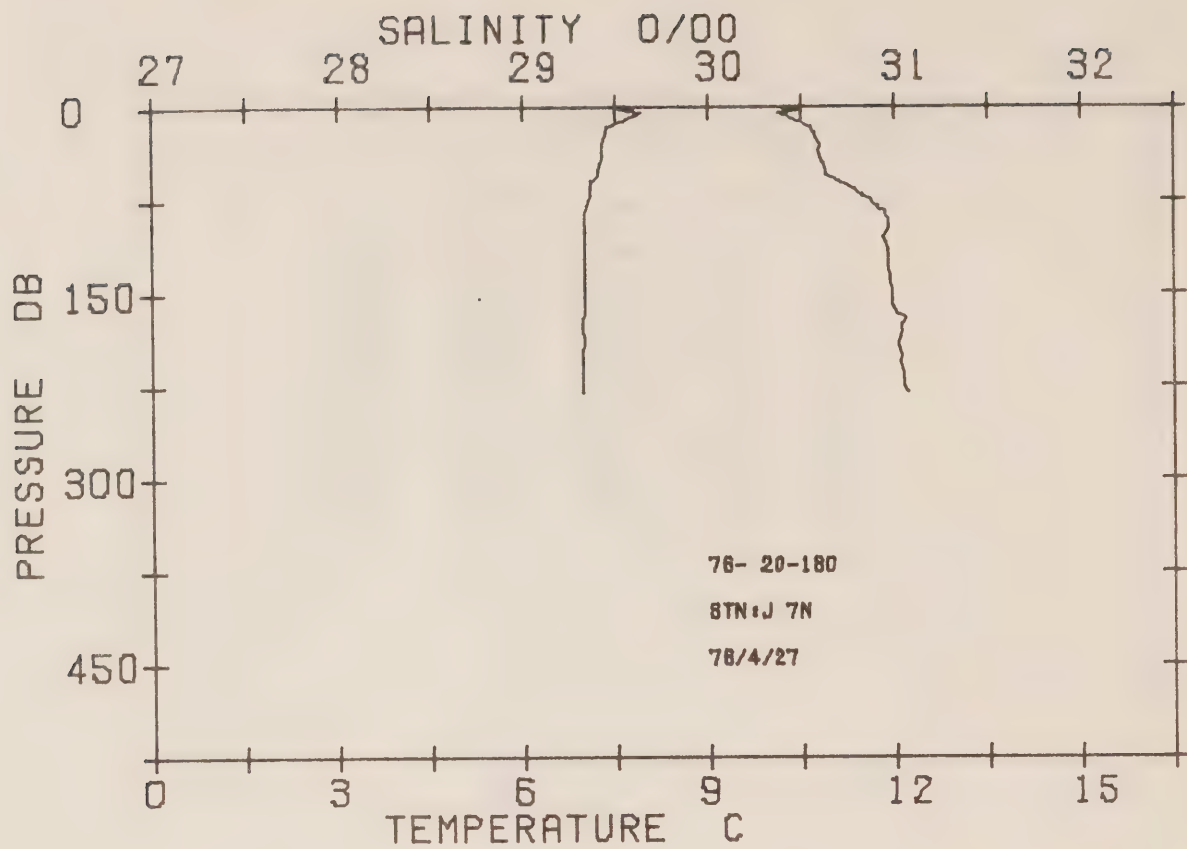


STATION J 7N CRUISE 76-20 CONS #167
 POSITION 50-27.8N 126- 1.4W
 DATE 76/ 4/27 TIME 9:22: 4 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.23	30.47	23.85	1474.
10	7.21	30.51	23.89	1474.
20	7.21	30.52	23.89	1474.
30	7.21	30.52	23.89	1475.
50	7.21	30.52	23.89	1475.
75	7.21	30.52	23.89	1475.
100	7.17	30.59	23.95	1476.
125	7.17	30.59	23.95	1476.
150	7.09	30.80	24.13	1476.
175	7.00	30.94	24.25	1477.
200	6.99	30.98	24.29	1477.
225	6.98	31.01	24.31	1477.

STATION J 7S CRUISE 76-20 CONS #168
 POSITION 50-26.9N 126- 2.1W
 DATE 76/ 4/27 TIME 9:43:12 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.29	30.51	23.88	1474.
10	7.20	30.55	23.92	1474.
20	7.19	30.56	23.93	1474.
30	7.18	30.57	23.94	1474.
50	7.15	30.64	24.00	1475.
75	7.03	30.89	24.21	1475.

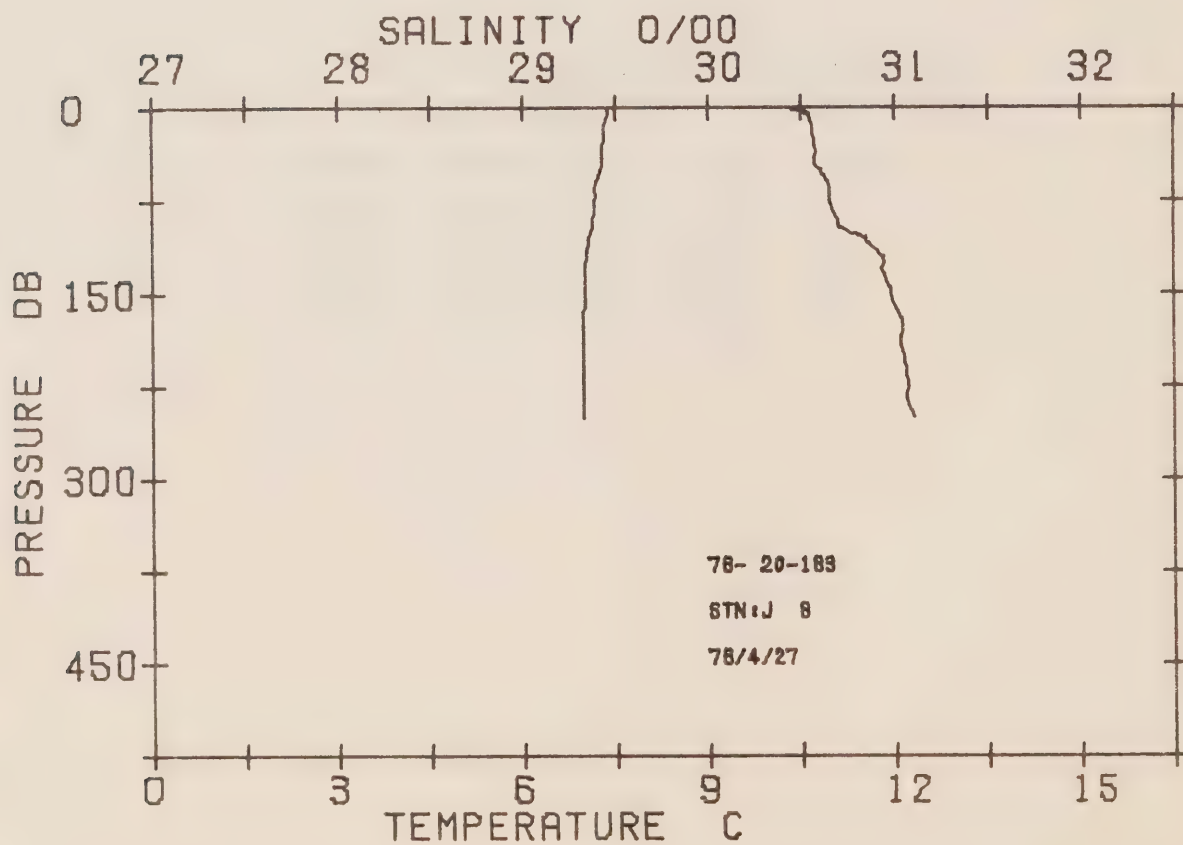
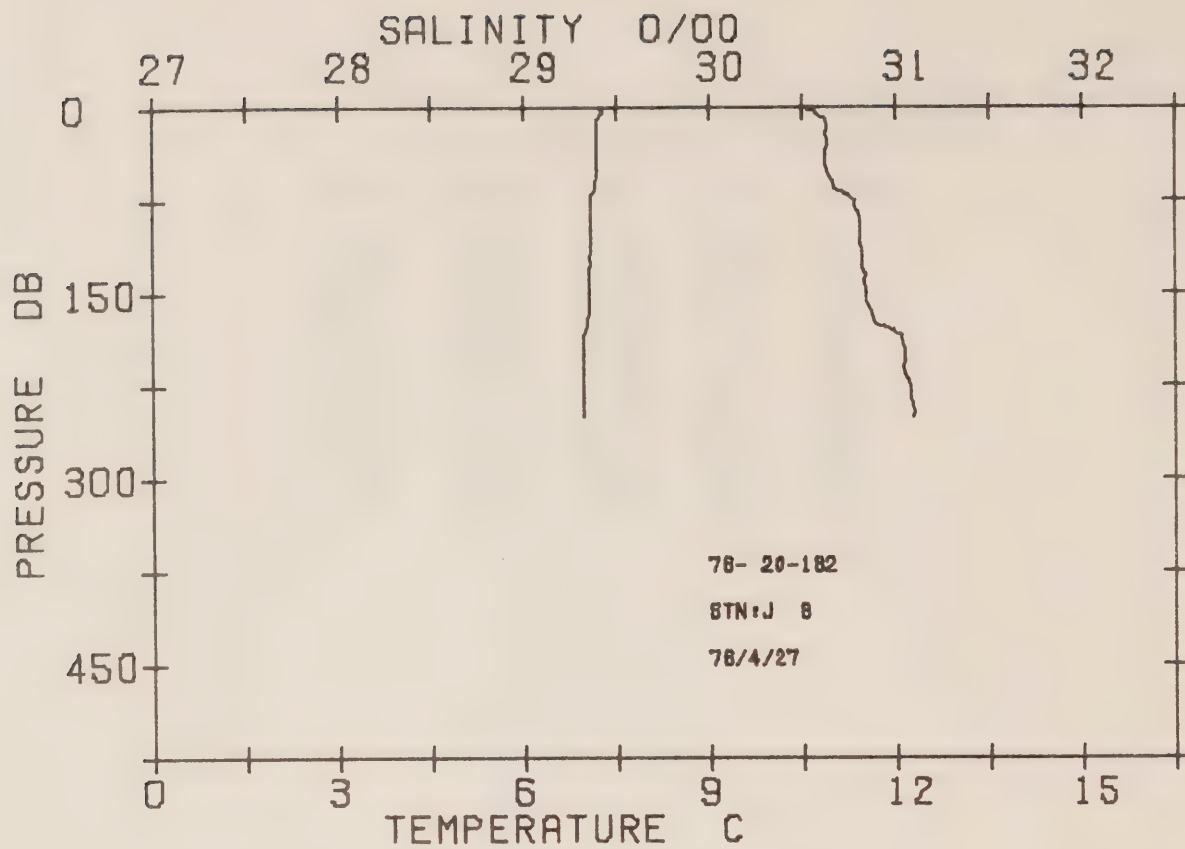


STATION J 7N CRUISE 76-20 CONS #180
 POSITION 50-27.8N 126- 1.4W
 DATE 76/ 4/27 TIME 18:23:41 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.57	30.45	23.79	1475.
10	7.69	30.46	23.78	1476.
20	7.33	30.57	23.92	1475.
30	7.28	30.60	23.95	1475.
50	7.21	30.64	23.99	1475.
75	7.05	30.87	24.19	1475.
100	7.01	30.96	24.26	1475.
125	7.00	30.97	24.28	1476.
150	7.00	30.99	24.29	1476.
175	6.98	31.04	24.33	1477.
200	6.98	31.04	24.33	1477.
225	6.98	31.05	24.34	1477.

STATION J 7S CRUISE 76-20 CONS #181
 POSITION 50-26.9N 126- 2.1W
 DATE 76/ 4/27 TIME 18:46:45 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.25	30.57	23.93	1474.
10	7.16	30.66	24.01	1474.
20	7.11	30.73	24.08	1474.
30	7.09	30.78	24.11	1474.
50	7.02	30.93	24.24	1475.
75	6.99	31.04	24.33	1475.

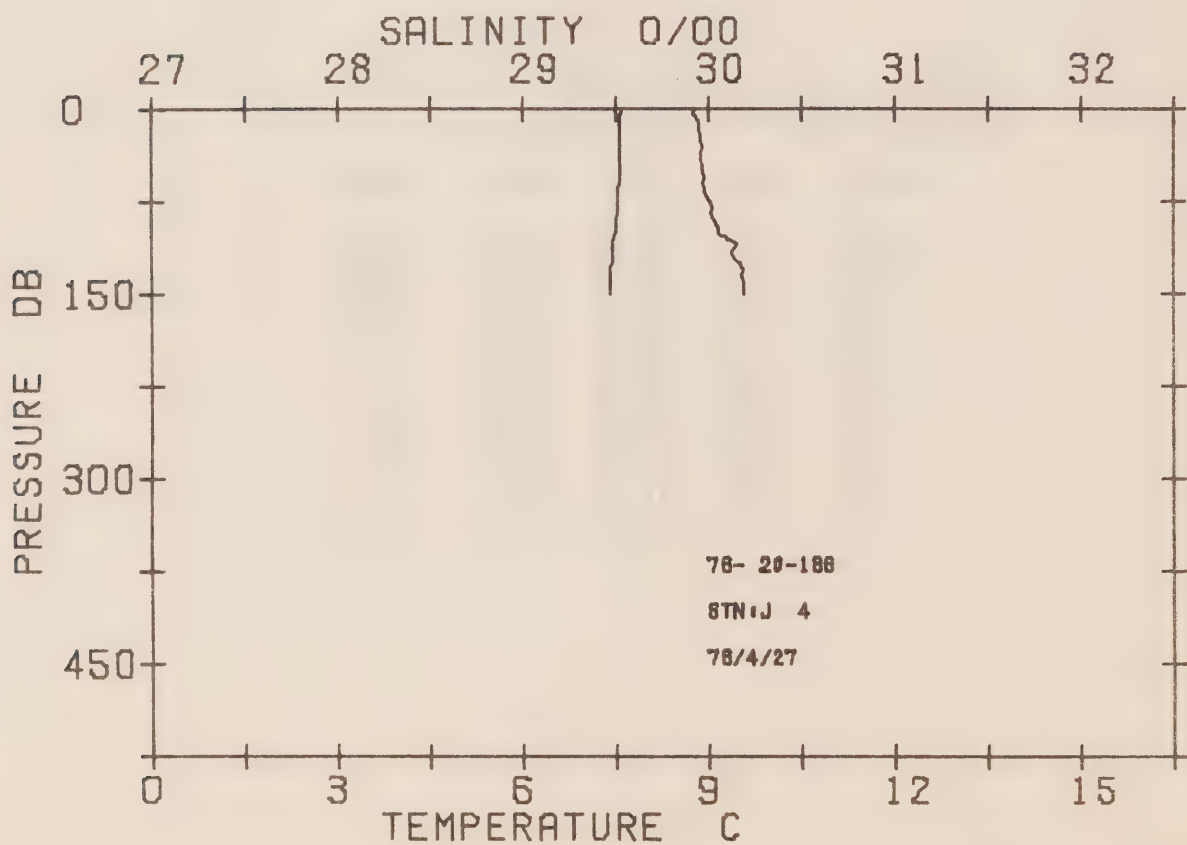
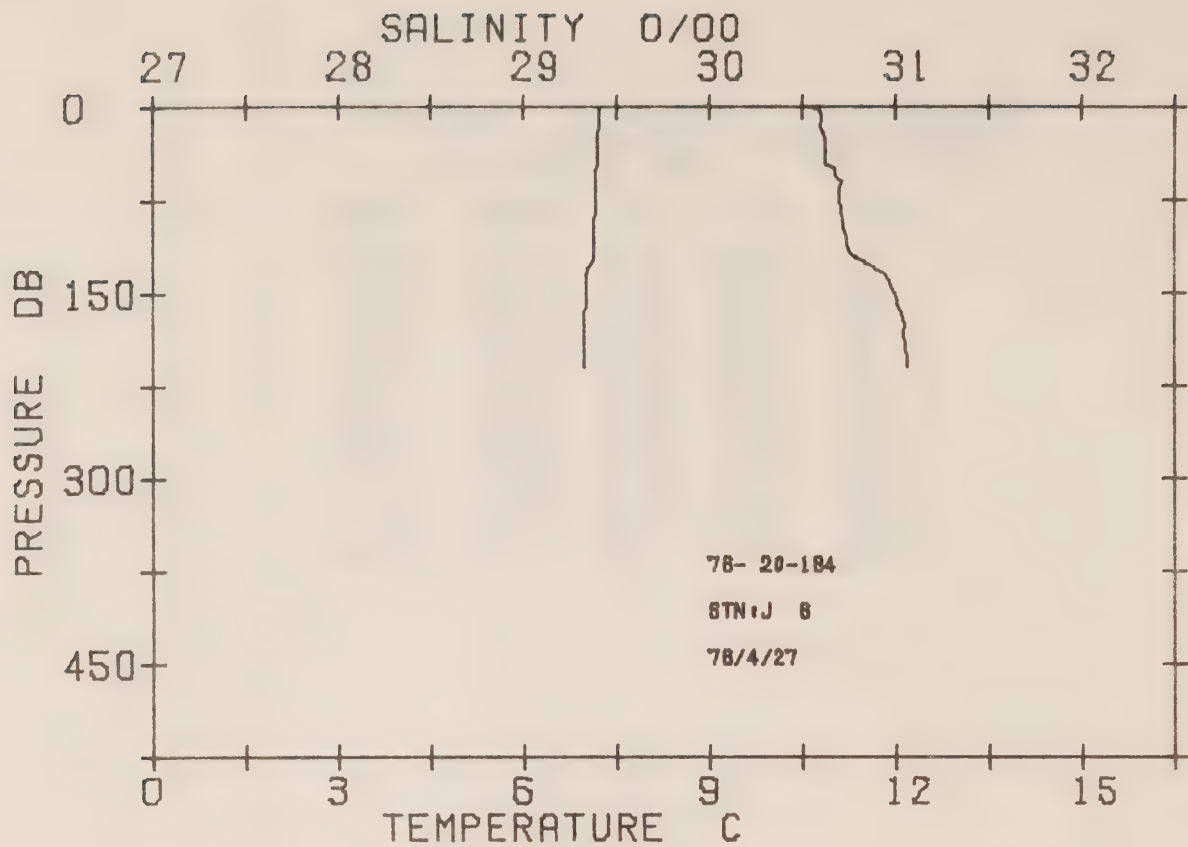


STATION J 8 CRUISE 76-20 CONS #182
 POSITION 50-27.5N 126- 3.4W
 DATE 76/ 4/27 TIME 19: 0:44 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.26	30.55	23.91	1474.
10	7.20	30.62	23.98	1474.
20	7.20	30.63	23.98	1474.
30	7.19	30.64	23.99	1475.
50	7.20	30.64	23.99	1475.
75	7.09	30.78	24.11	1475.
100	7.08	30.81	24.14	1475.
125	7.08	30.82	24.15	1476.
150	7.06	30.84	24.16	1476.
175	7.04	30.90	24.21	1477.
200	6.97	31.05	24.34	1477.
225	6.97	31.08	24.36	1477.
250	6.97	31.09	24.37	1478.

STATION J 8 CRUISE 76-20 CONS #183
 POSITION 50-27.5N 126- 3.4W
 DATE 76/ 4/27 TIME 19:58:23 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.39	30.49	23.84	1475.
10	7.34	30.55	23.90	1475.
20	7.31	30.56	23.92	1475.
30	7.29	30.57	23.93	1475.
50	7.24	30.60	23.95	1475.
75	7.17	30.66	24.01	1475.
100	7.10	30.75	24.09	1476.
125	7.01	30.95	24.26	1476.
150	7.00	30.98	24.28	1476.
175	6.98	31.04	24.33	1477.
200	6.98	31.05	24.34	1477.
225	6.97	31.07	24.35	1477.
250	6.97	31.10	24.38	1478.

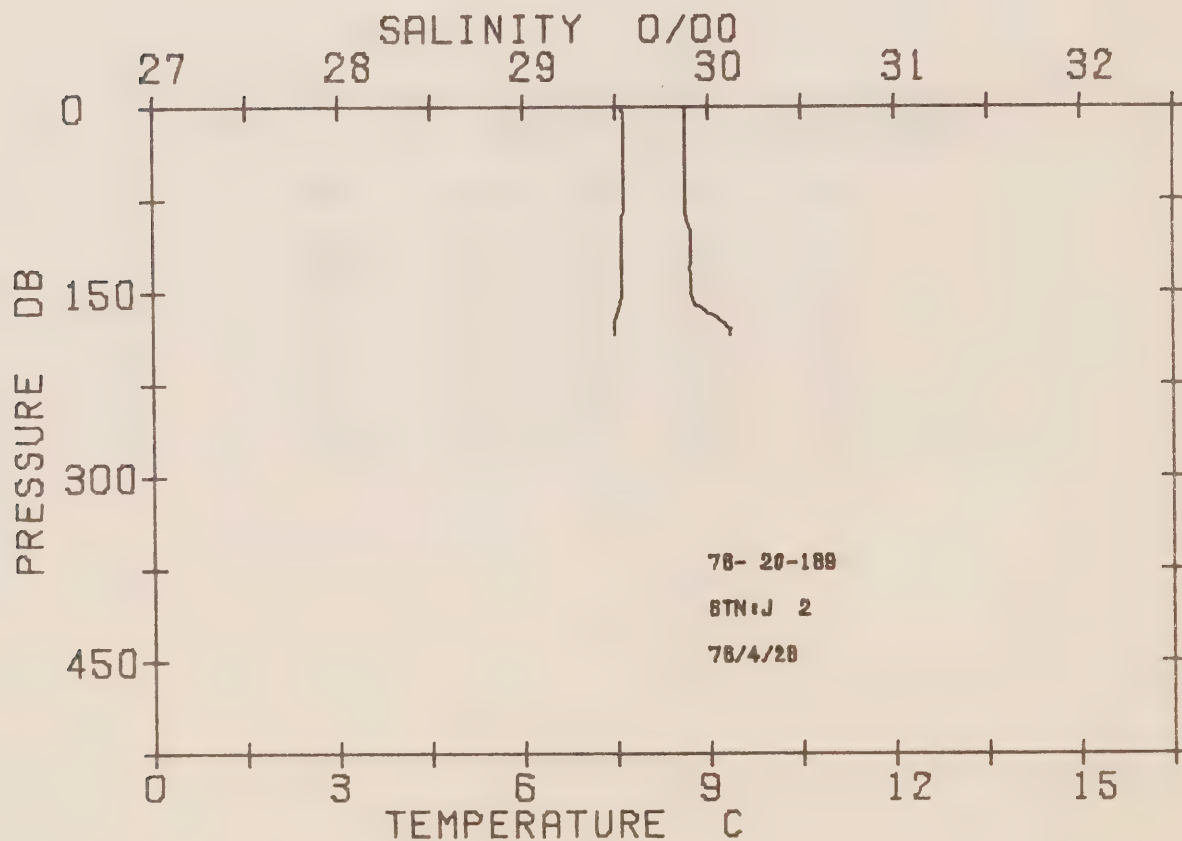
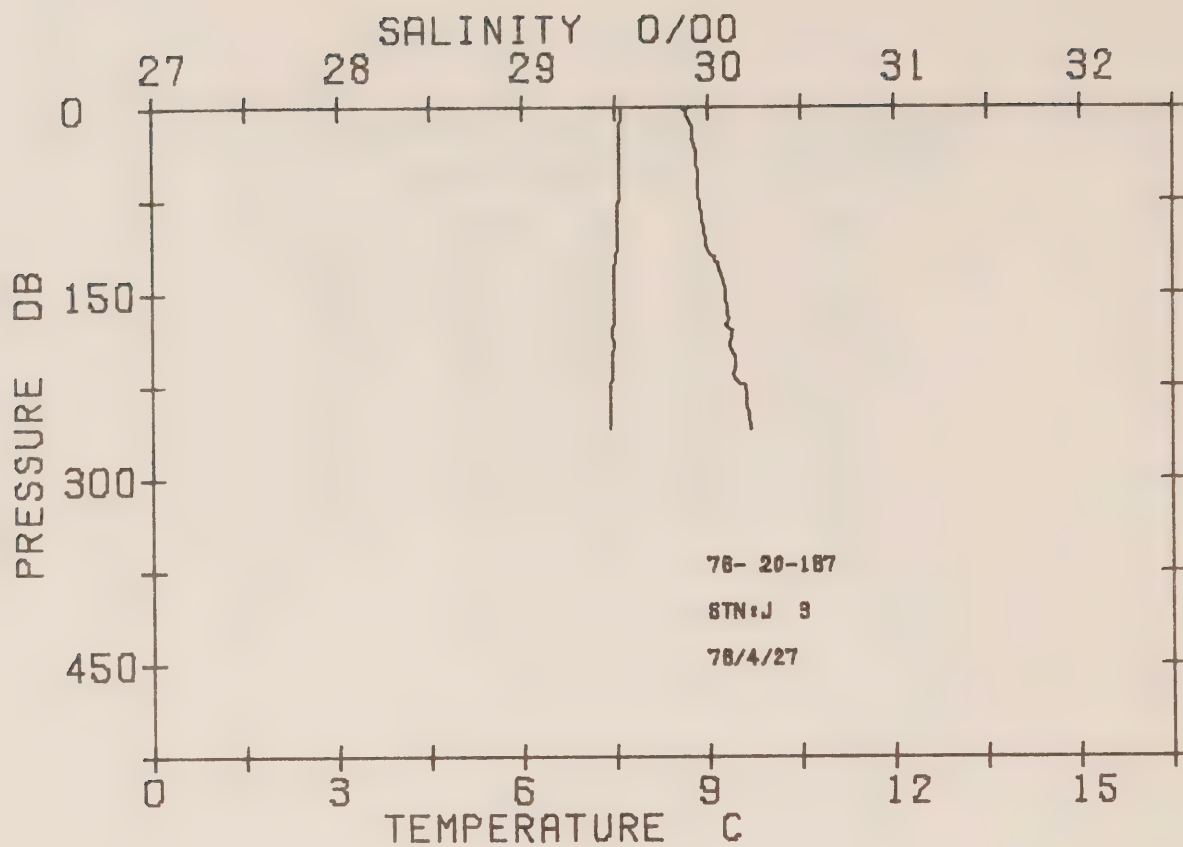


STATION J 6 CRUISE 76-20 CONS #184
 POSITION 50-26.4N 126- .7W
 DATE 76/ 4/27 TIME 20:26:55 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.21	30.54	23.91	1474.
10	7.21	30.60	23.96	1474.
20	7.20	30.61	23.97	1474.
30	7.19	30.62	23.97	1475.
50	7.16	30.68	24.02	1475.
75	7.15	30.70	24.05	1475.
100	7.14	30.73	24.07	1476.
125	7.08	30.83	24.15	1476.
150	6.99	31.00	24.30	1476.
175	6.98	31.05	24.34	1477.
200	6.98	31.06	24.35	1477.

STATION J 4 CRUISE 76-20 CONS #186
 POSITION 50-22.7N 125-47.0W
 DATE 76/ 4/27 TIME 23:19:43 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.57	29.93	23.38	1475.
10	7.56	29.95	23.40	1475.
20	7.55	29.96	23.41	1475.
30	7.55	29.97	23.42	1475.
50	7.55	29.97	23.42	1475.
75	7.53	30.01	23.46	1476.
100	7.50	30.05	23.49	1476.
125	7.43	30.17	23.59	1476.
150	7.41	30.19	23.61	1477.

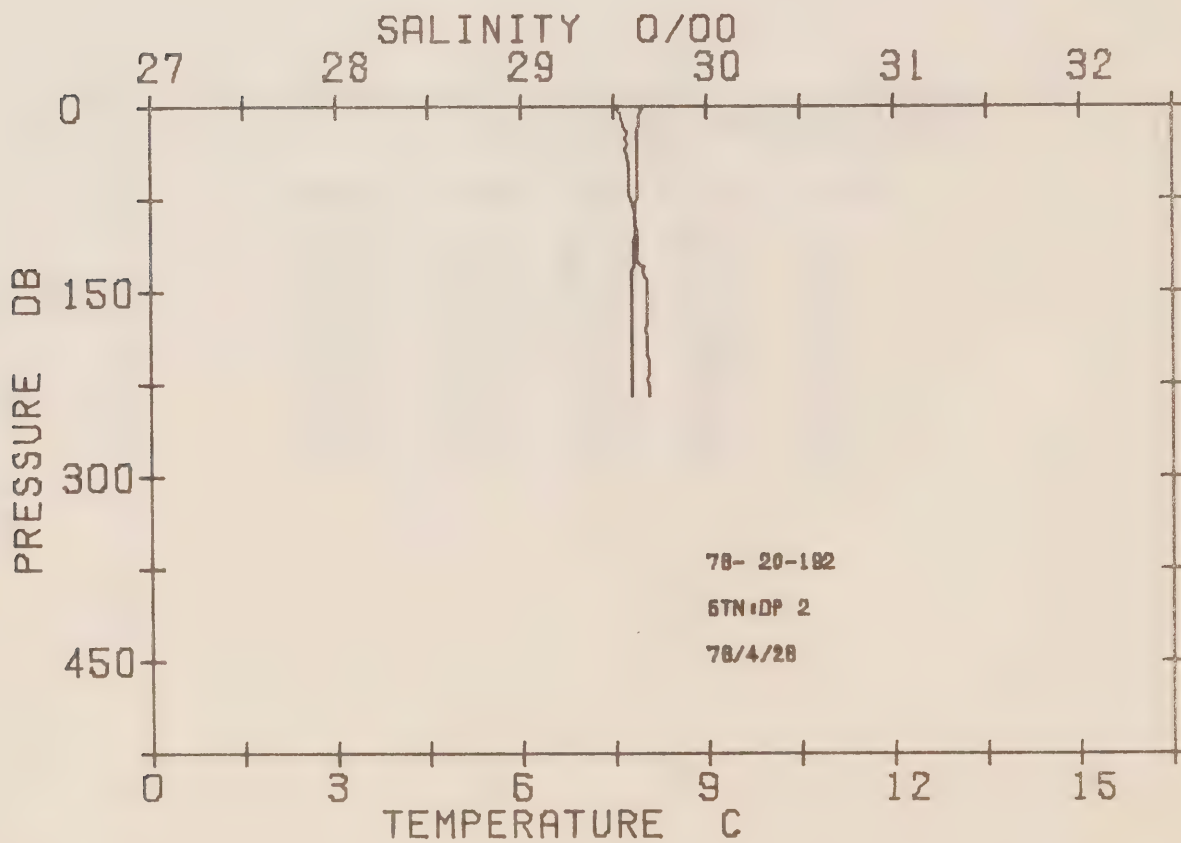
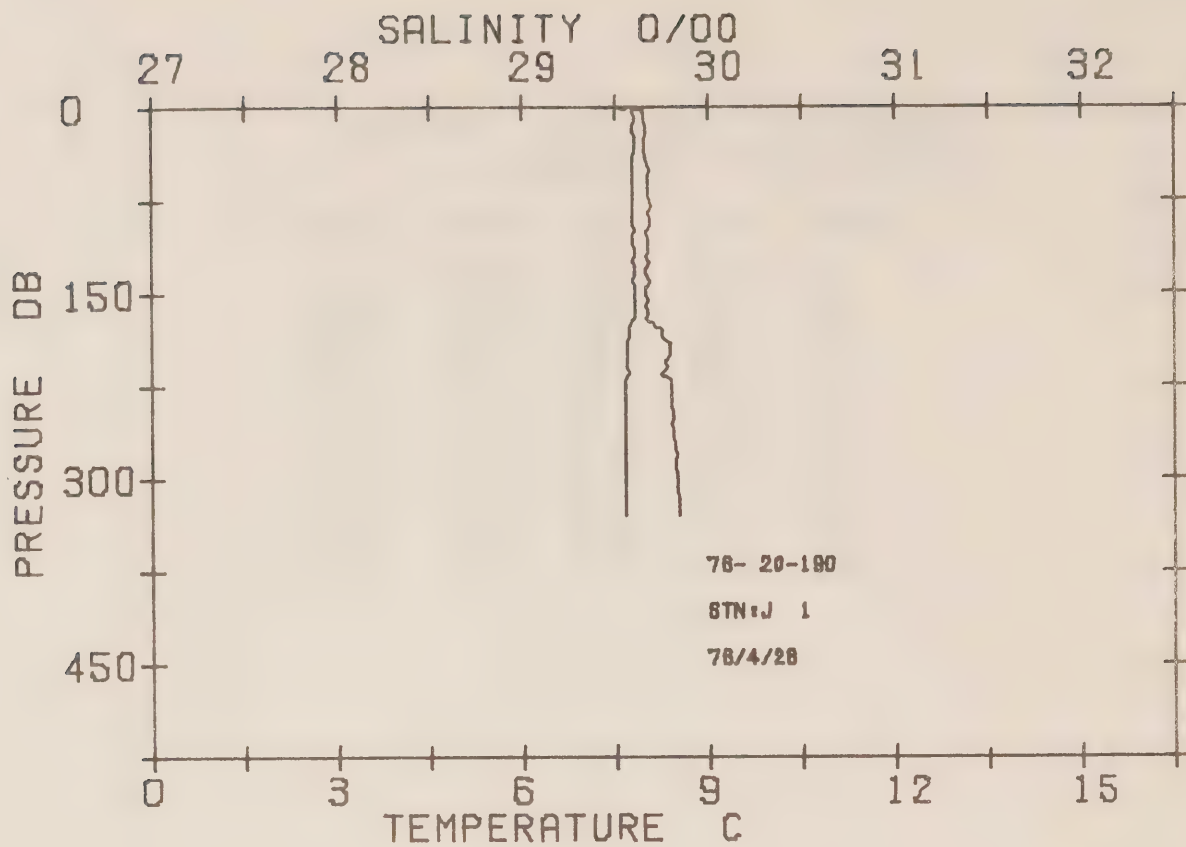


STATION J 3 CRUISE 76-20 CONS #187
 POSITION 50-22.2N 125-39.0W
 DATE 76/ 4/27 TIME 23:58: 2 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.58	29.89	23.35	1475.
10	7.58	29.90	23.36	1475.
20	7.57	29.92	23.38	1475.
30	7.56	29.93	23.39	1475.
50	7.55	29.95	23.40	1475.
75	7.55	29.96	23.41	1476.
100	7.53	29.98	23.43	1476.
125	7.49	30.05	23.49	1477.
150	7.46	30.09	23.52	1477.
175	7.46	30.09	23.53	1477.
200	7.44	30.15	23.58	1478.
225	7.41	30.20	23.62	1478.
250	7.40	30.22	23.64	1478.

STATION J 2 CRUISE 76-20 CONS #189
 POSITION 50-22.2N 125-33.5W
 DATE 76/ 4/28 TIME 1: 4:27 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.60	29.87	23.34	1475.
10	7.61	29.88	23.34	1475.
20	7.62	29.87	23.33	1475.
30	7.62	29.87	23.33	1475.
50	7.62	29.88	23.34	1476.
75	7.61	29.88	23.34	1476.
100	7.59	29.91	23.36	1476.
125	7.59	29.91	23.36	1477.
150	7.59	29.91	23.37	1477.
175	7.48	30.08	23.51	1477.

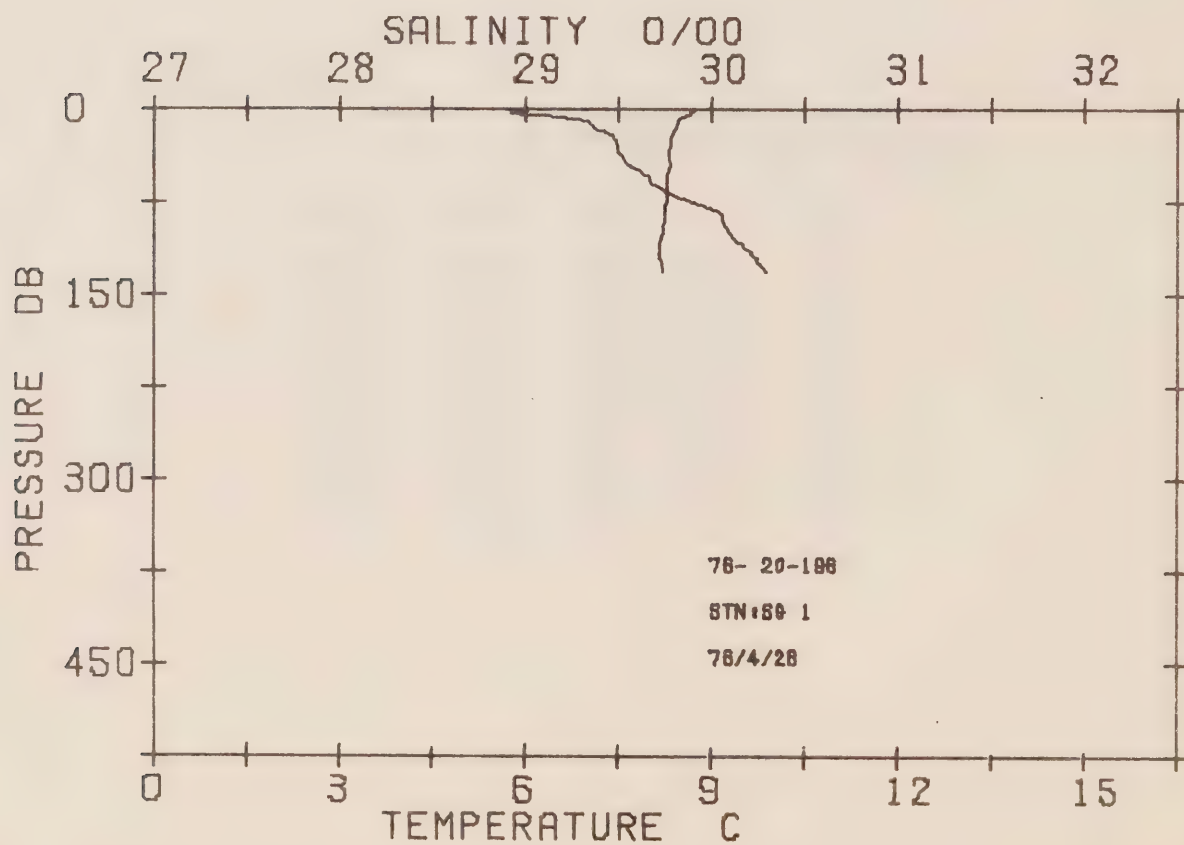
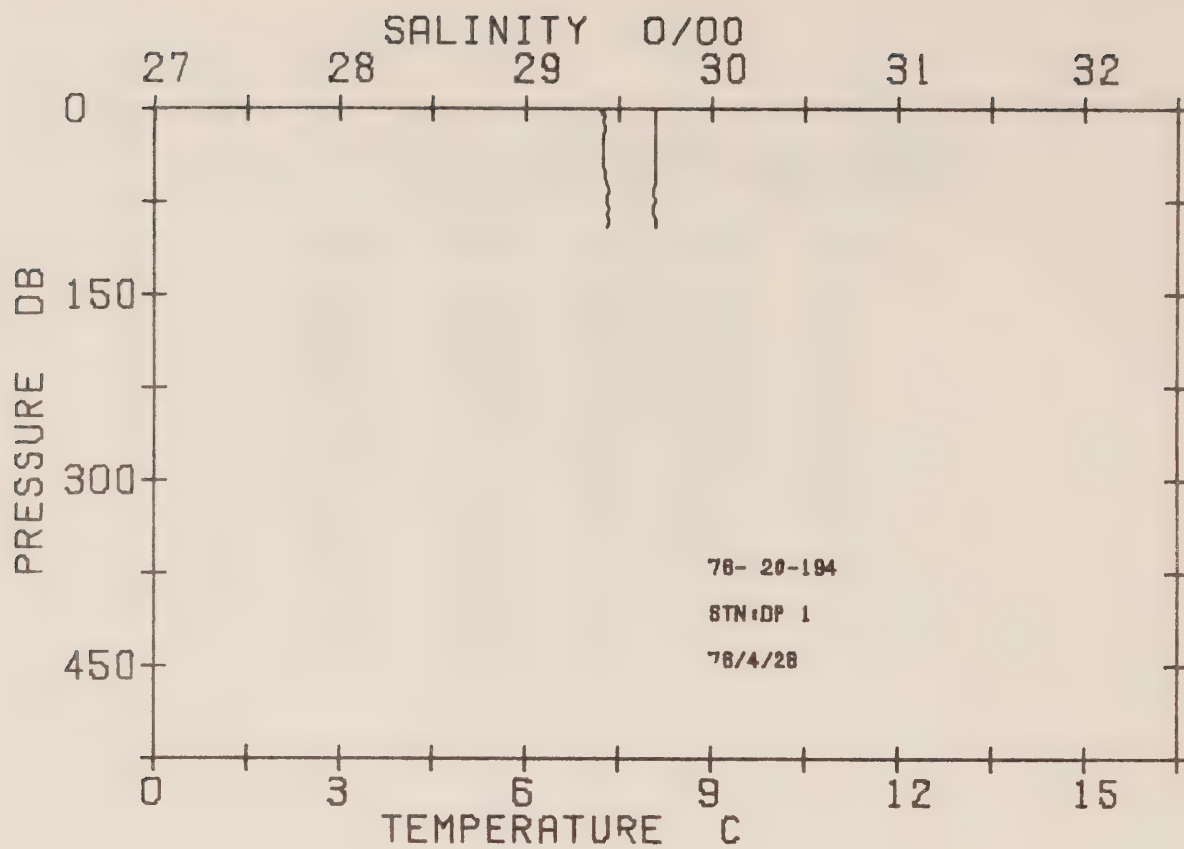


STATION J 1 CRUISE 76-20 CONS #190
 POSITION 50-20.7N 125-25.5W
 DATE 76/ 4/28 TIME 1:47: 8 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.79	29.40	22.94	1475.
10	7.80	29.66	23.14	1475.
20	7.79	29.67	23.15	1476.
30	7.80	29.66	23.15	1476.
50	7.78	29.69	23.17	1476.
75	7.78	29.69	23.17	1476.
100	7.80	29.67	23.15	1477.
125	7.79	29.69	23.16	1477.
150	7.81	29.67	23.15	1478.
175	7.76	29.71	23.19	1478.
200	7.68	29.79	23.26	1478.
225	7.67	29.80	23.27	1479.
250	7.67	29.81	23.28	1479.
275	7.66	29.82	23.29	1479.
300	7.66	29.83	23.29	1480.
325	7.65	29.84	23.30	1480.

STATION DP 2 CRUISE 76-20 CONS #192
 POSITION 50-14.7N 125-23.0W
 DATE 76/ 4/28 TIME 3: 6: 9 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.95	29.52	23.01	1476.
10	7.92	29.54	23.04	1476.
20	7.89	29.57	23.06	1476.
30	7.89	29.57	23.06	1476.
50	7.86	29.58	23.07	1476.
75	7.86	29.59	23.08	1477.
100	7.83	29.62	23.10	1477.
125	7.82	29.63	23.12	1477.
150	7.78	29.68	23.16	1478.
175	7.78	29.68	23.16	1478.
200	7.78	29.68	23.16	1478.
225	7.77	29.69	23.17	1479.

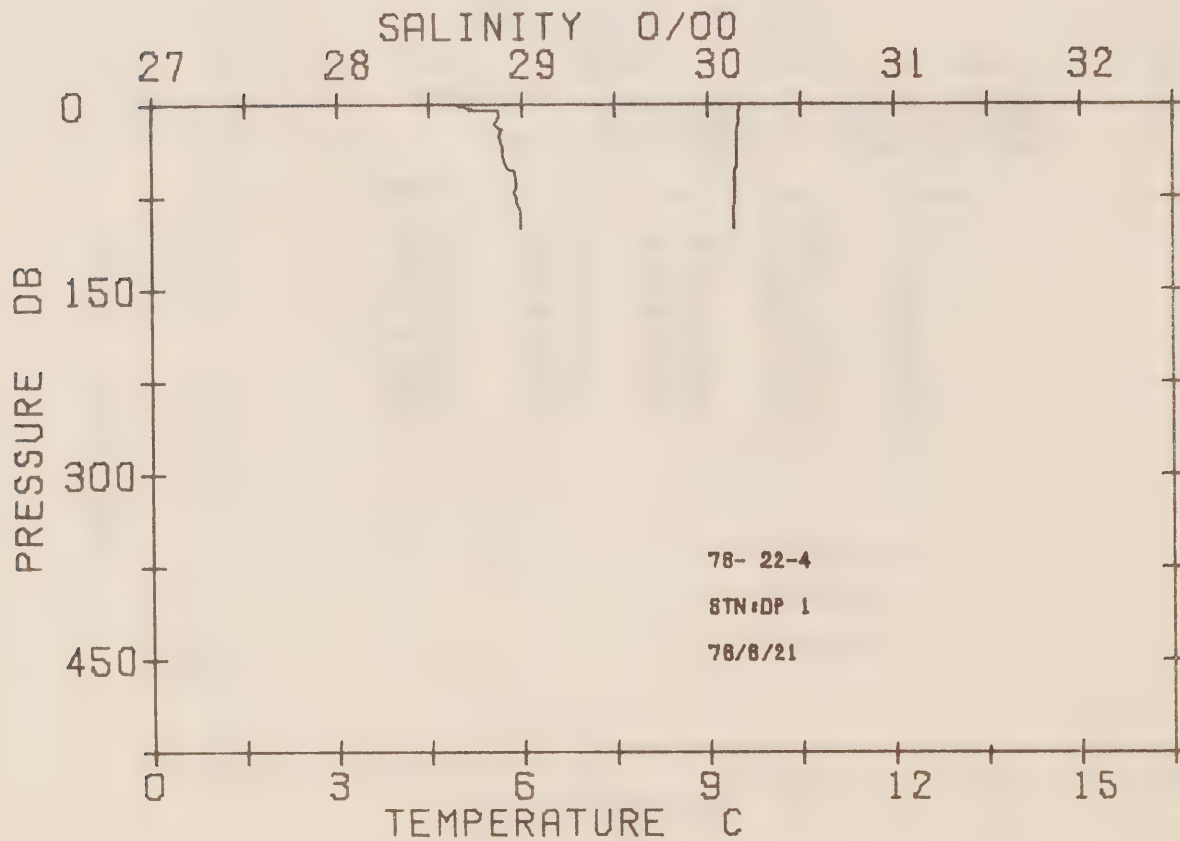
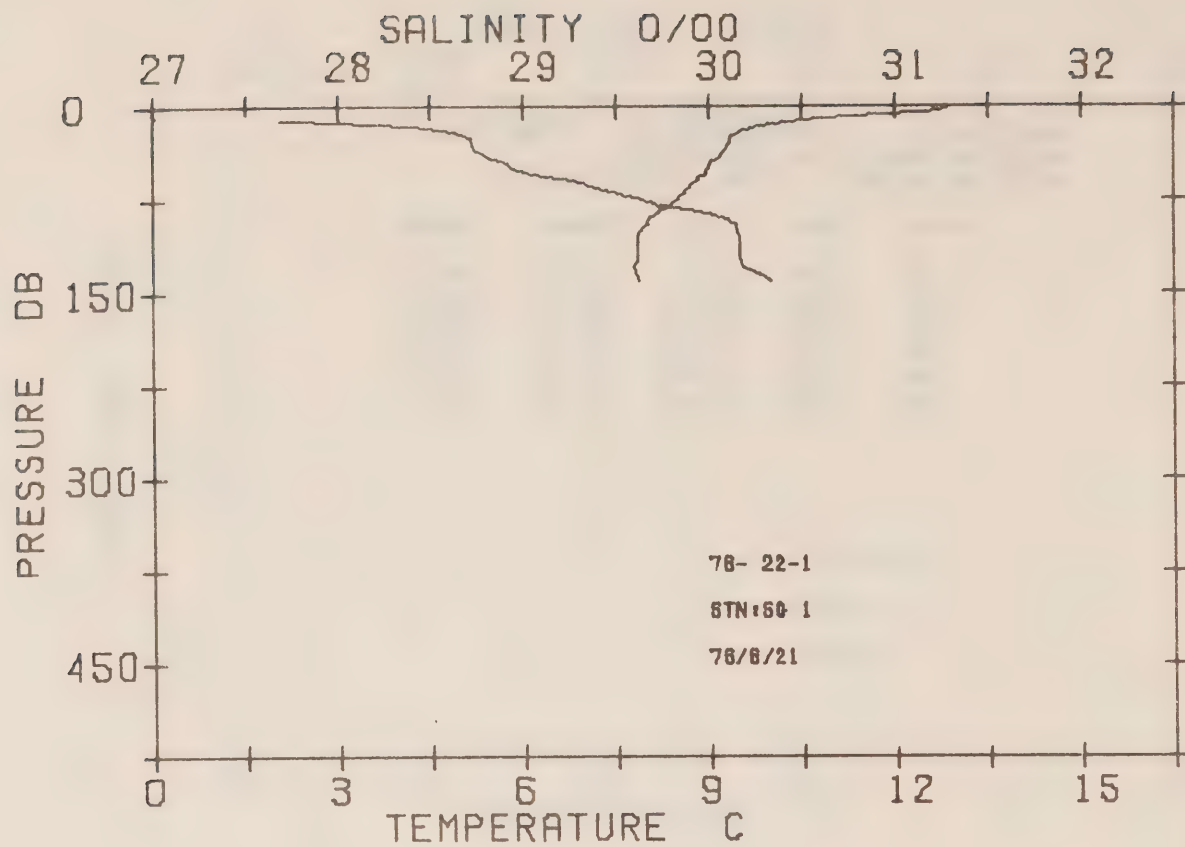


STATION DP 1 CRUISE 76-20 CONS #194
 POSITION 50- 5.1N 125-16.4W
 DATE 76/ 4/28 TIME 4:58:20 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.09	29.41	22.91	1476.
10	8.09	29.42	22.92	1476.
20	8.09	29.42	22.92	1476.
30	8.09	29.42	22.92	1477.
50	8.08	29.43	22.92	1477.
75	8.08	29.44	22.93	1477.

STATION SG 1 CRUISE 76-20 CONS #196
 POSITION 49-55.0N 125- 5.5W
 DATE 76/ 4/28 TIME 6:49:45 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.73	28.90	22.42	1478.
10	8.46	29.34	22.80	1478.
20	8.36	29.47	22.92	1477.
30	8.33	29.50	22.94	1478.
50	8.31	29.62	23.04	1478.
75	8.27	29.91	23.28	1479.
100	8.21	30.10	23.43	1479.
125	8.19	30.26	23.56	1480.

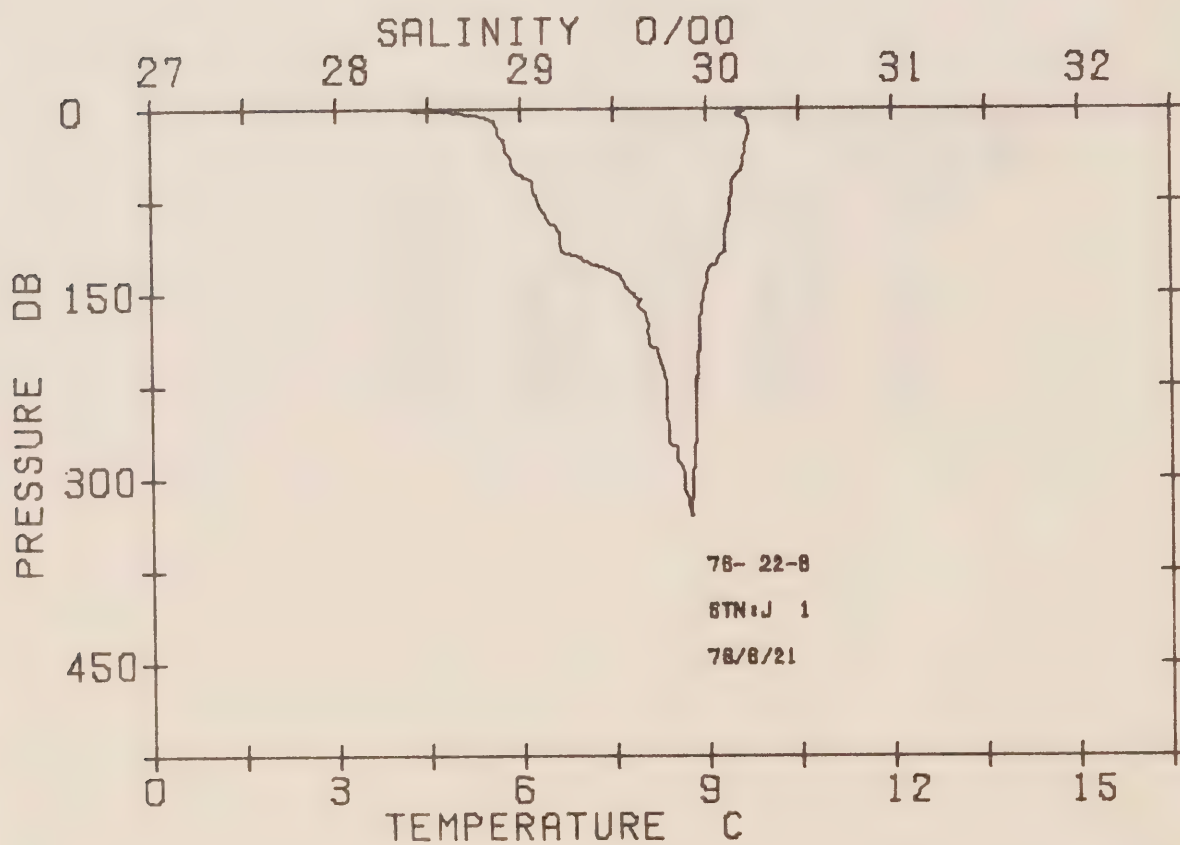
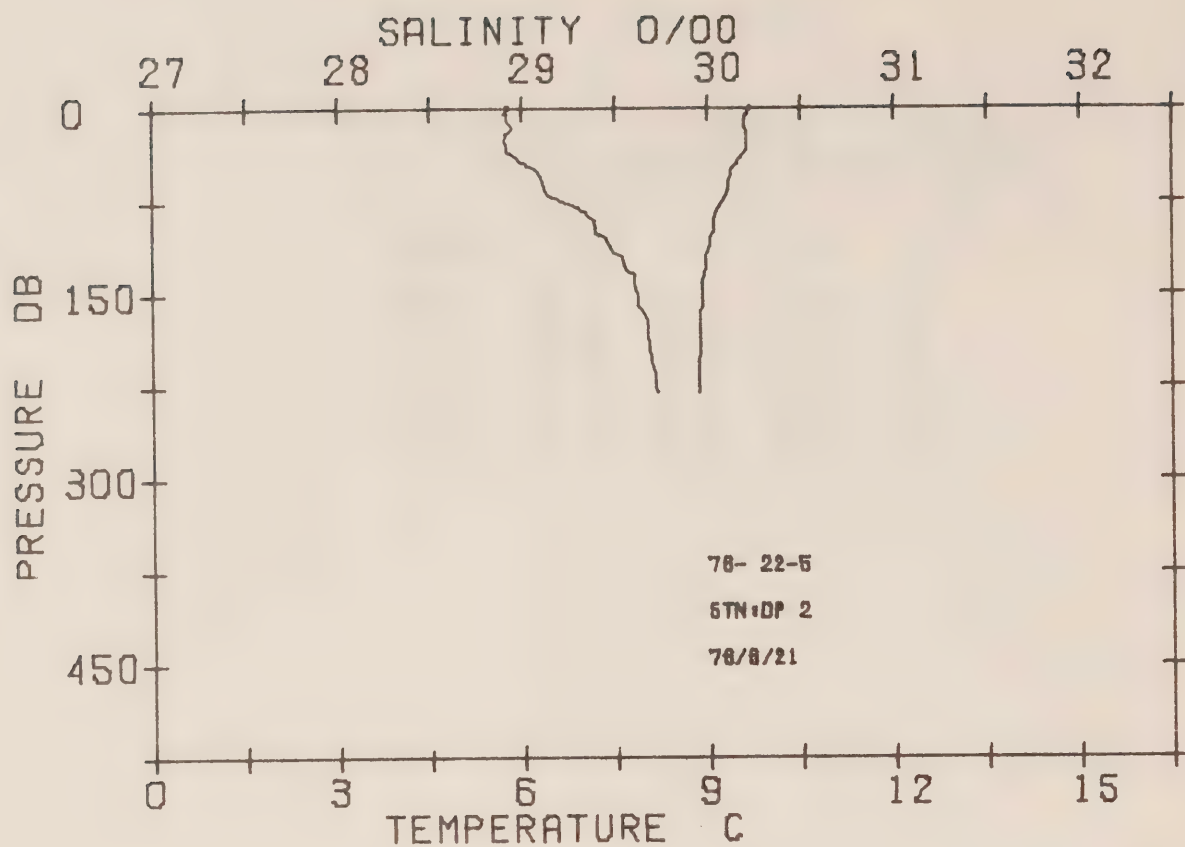


STATION SG 1 CRUISE 76-22 CONS # 1
 POSITION 49-55.0N 125- 5.5W
 DATE 76/ 6/21 TIME 14:36:27 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	12.85	26.33	19.75	1490.
10	10.80	27.56	21.06	1484.
20	9.49	28.64	22.10	1481.
30	9.34	28.73	22.20	1480.
50	9.01	28.95	22.42	1480.
75	8.50	29.65	23.04	1479.
100	7.92	30.16	23.52	1478.
125	7.83	30.18	23.54	1478.

STATION DP 1 CRUISE 76-22 CONS # 4
 POSITION 50- 5.1N 125-16.4W
 DATE 76/ 6/21 TIME 16:38:17 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.53	28.67	22.12	1481.
10	9.49	28.88	22.29	1481.
20	9.48	28.89	22.30	1481.
30	9.48	28.89	22.30	1481.
50	9.46	28.92	22.32	1481.
75	9.43	28.97	22.37	1482.
100	9.42	28.99	22.39	1482.

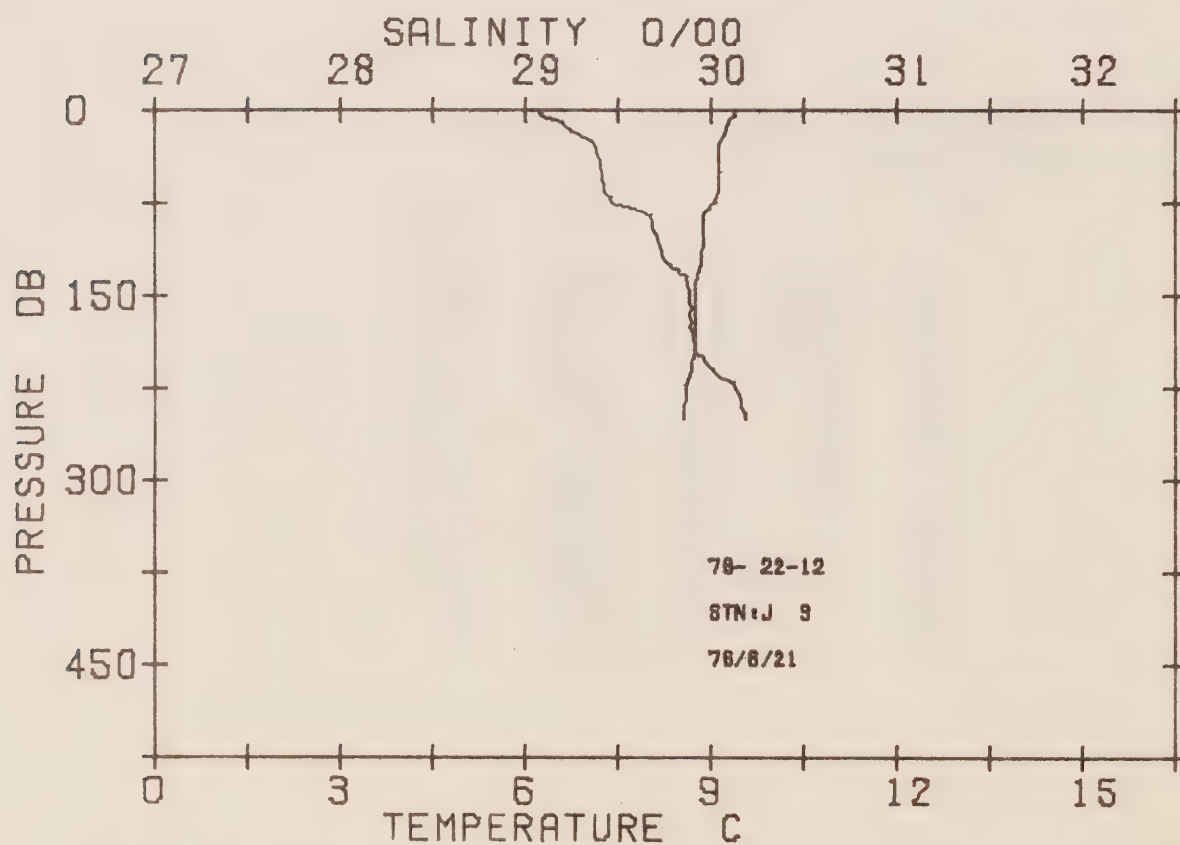
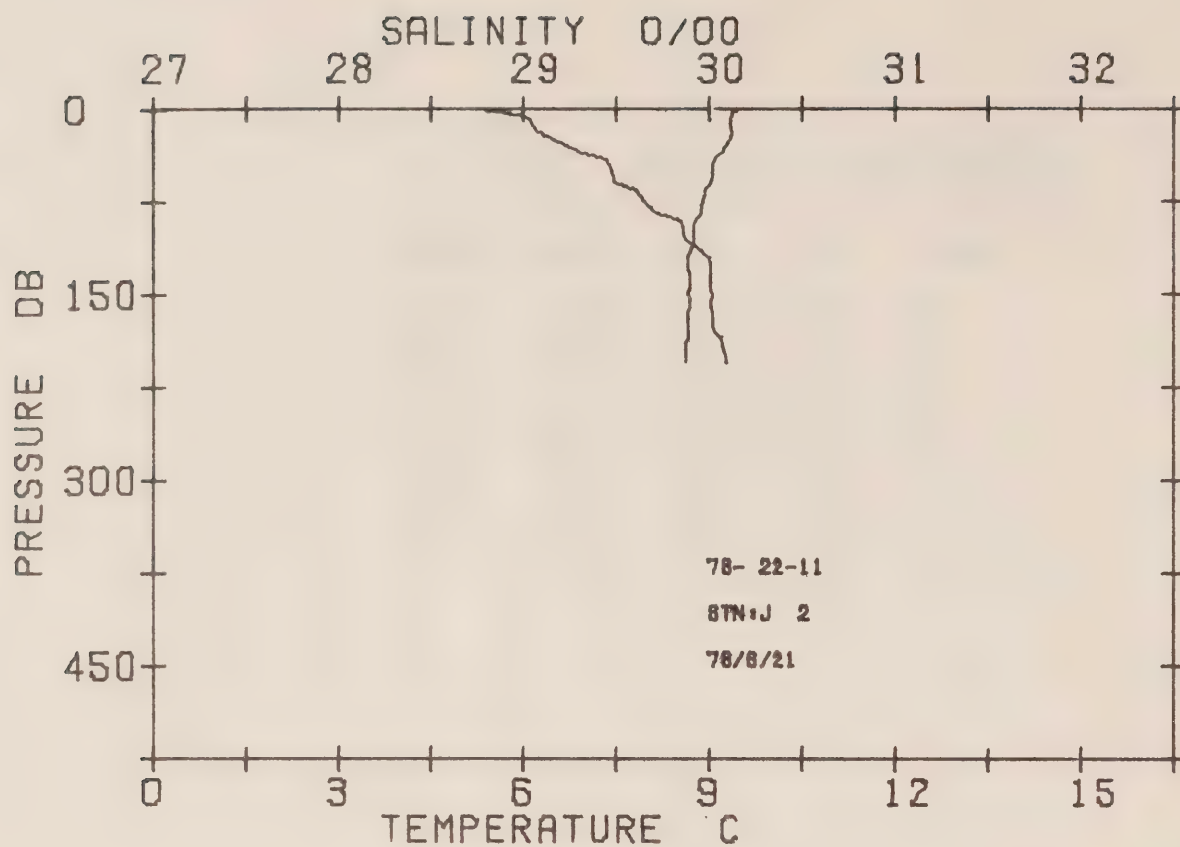


STATION DP 2 CRUISE 76-22 CONS # 5
 POSITION 50-14.7N 125-23.0W
 DATE 76/ 6/21 TIME 17:45:33 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.69	28.92	22.29	1481.
10	9.58	28.92	22.31	1481.
20	9.61	28.92	22.30	1482.
30	9.64	28.92	22.30	1482.
50	9.39	29.08	22.46	1481.
75	9.24	29.22	22.60	1481.
100	9.08	29.40	22.76	1481.
125	8.97	29.55	22.89	1482.
150	8.92	29.62	22.95	1482.
175	8.87	29.68	23.01	1482.
200	8.86	29.70	23.03	1483.
225	8.84	29.72	23.05	1483.

STATION J 1 CRUISE 76-22 CONS # 8
 POSITION 50-20.7N 125-25.5W
 DATE 76/ 6/21 TIME 19:14:44 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.60	28.42	21.91	1481.
10	9.67	28.85	22.24	1481.
20	9.70	28.87	22.25	1482.
30	9.62	28.92	22.30	1482.
50	9.55	28.97	22.35	1482.
75	9.39	29.09	22.47	1482.
100	9.28	29.21	22.58	1482.
125	9.15	29.36	22.71	1482.
150	8.95	29.60	22.93	1482.
175	8.89	29.69	23.01	1482.
200	8.84	29.74	23.06	1483.
225	8.81	29.78	23.10	1483.
250	8.82	29.78	23.09	1483.
275	8.78	29.83	23.14	1484.
300	8.75	29.88	23.18	1484.
325	8.73	29.91	23.21	1484.

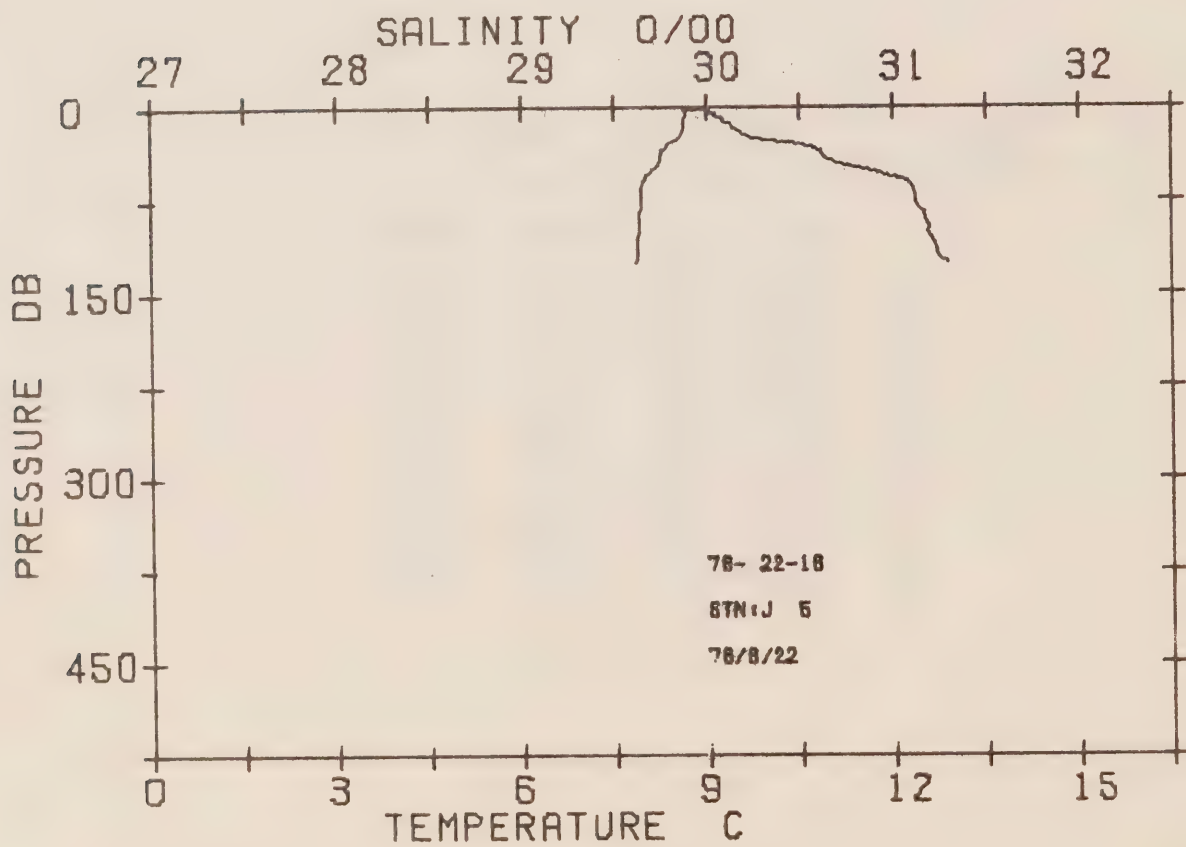
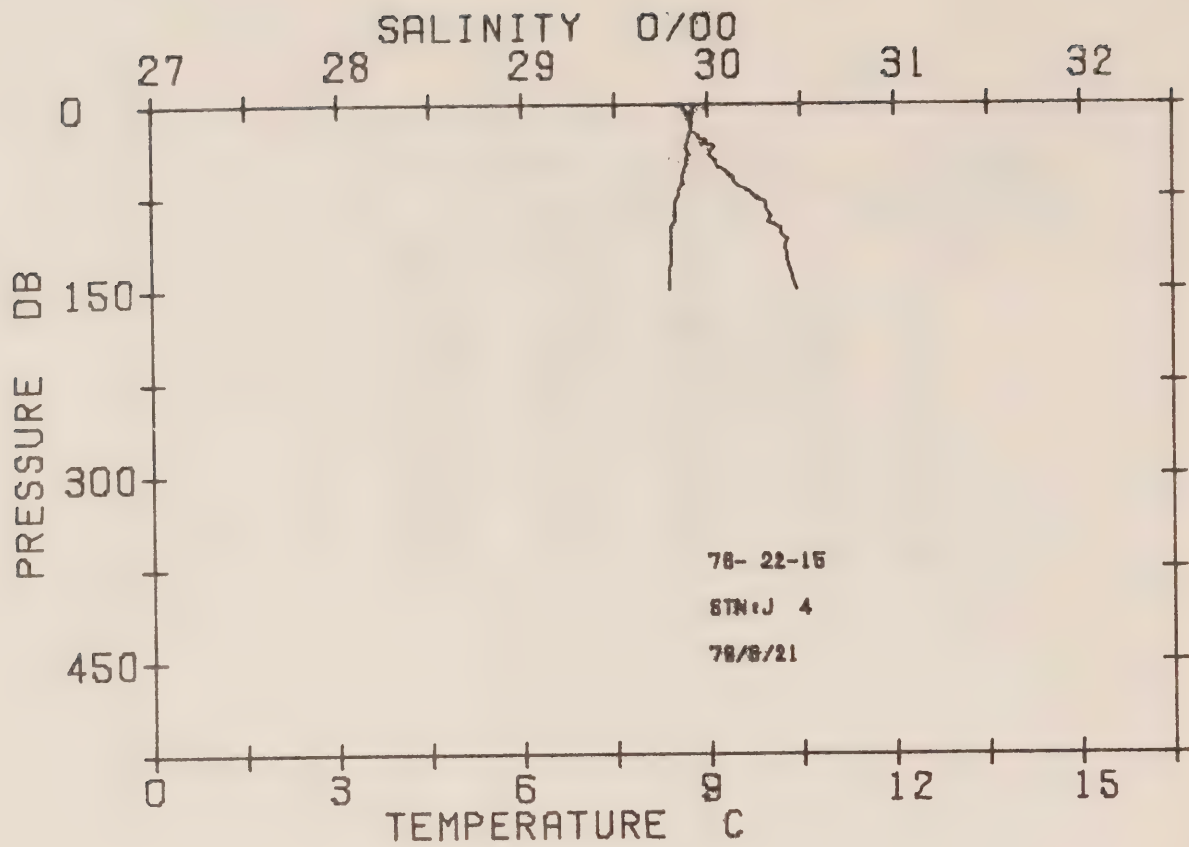


STATION J 2 CRUISE 76-22 CONS # 11
 POSITION 50-22.2N 125-33.5W
 DATE 76/ 6/21 TIME 20:45: 8 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.44	28.80	22.24	1480.
10	9.35	29.04	22.44	1481.
20	9.36	29.10	22.48	1481.
30	9.28	29.24	22.60	1481.
50	9.07	29.48	22.82	1481.
75	8.91	29.66	22.98	1481.
100	8.76	29.86	23.17	1481.
125	8.67	30.01	23.29	1481.
150	8.67	30.02	23.30	1481.
175	8.67	30.02	23.30	1482.
200	8.63	30.09	23.36	1482.

STATION J 3 CRUISE 76-22 CONS # 12
 POSITION 50-22.2N 125-39.0W
 DATE 76/ 6/21 TIME 21:23: 2 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.38	28.99	22.39	1480.
10	9.29	29.20	22.57	1481.
20	9.21	29.30	22.66	1480.
30	9.14	29.39	22.74	1480.
50	9.12	29.42	22.77	1481.
75	9.07	29.47	22.81	1481.
100	8.87	29.71	23.03	1481.
125	8.83	29.78	23.09	1481.
150	8.76	29.89	23.18	1482.
175	8.76	29.89	23.19	1482.
200	8.71	29.96	23.25	1482.
225	8.59	30.14	23.41	1483.
250	8.56	30.19	23.45	1483.

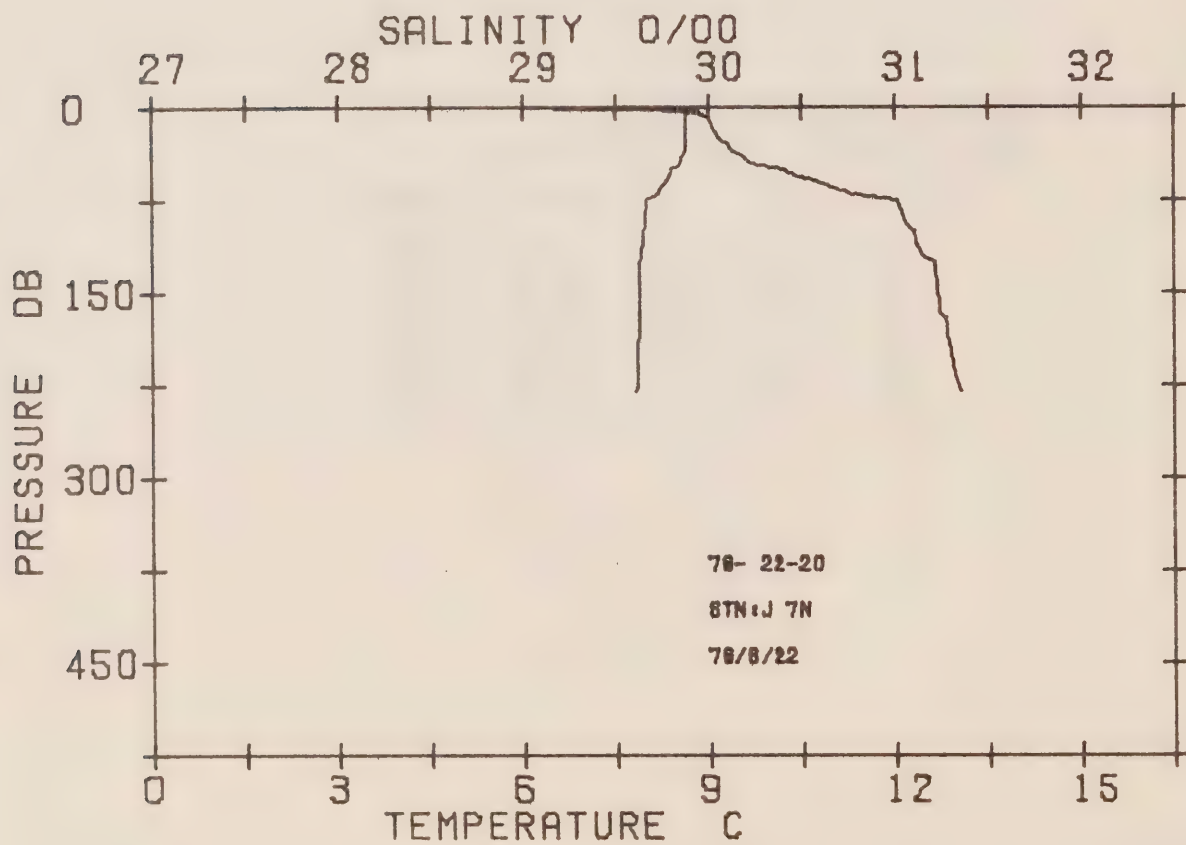
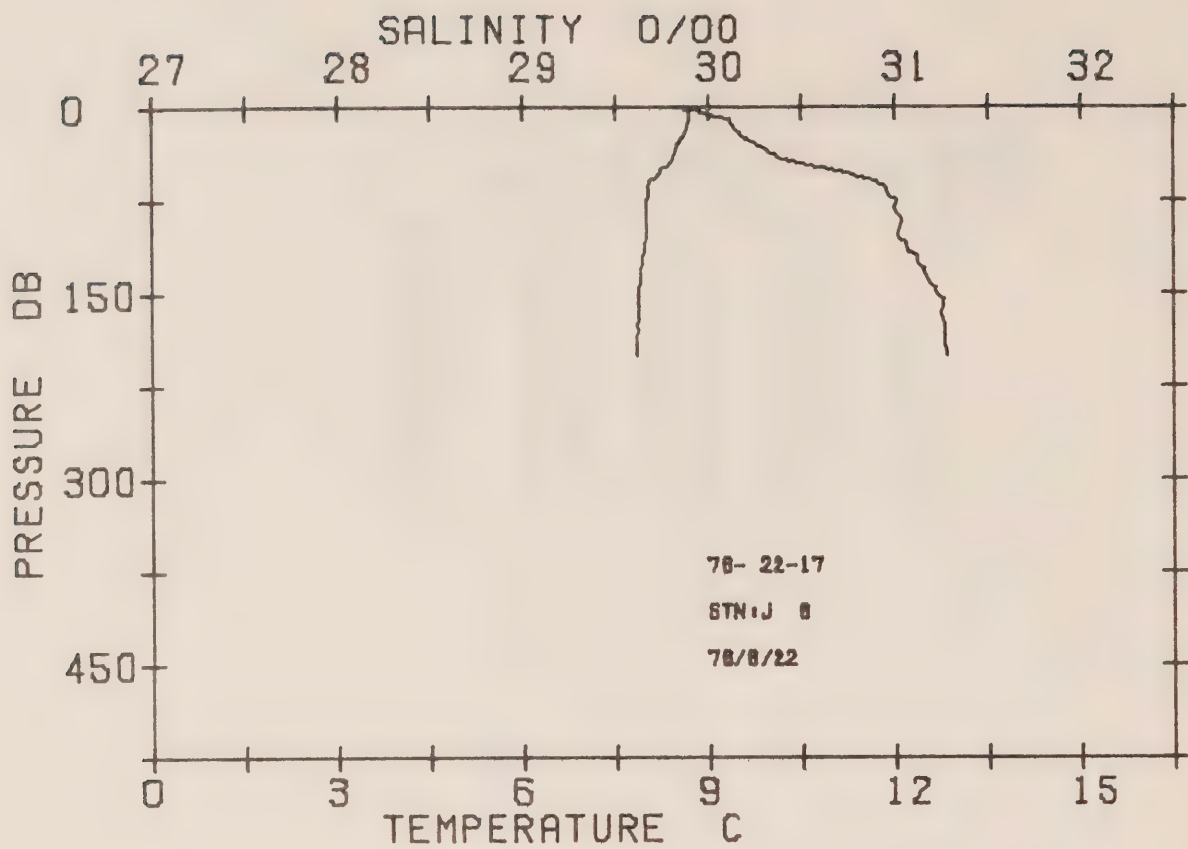


STATION J 4 CRUISE 76-22 CONS # 15
 POSITION 50-22.7N 125-47.0W
 DATE 76/ 6/21 TIME 22:59:23 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.78	29.78	23.10	1479.
10	8.75	29.91	23.20	1479.
20	8.75	29.92	23.21	1480.
30	8.69	29.99	23.28	1480.
50	8.66	30.05	23.33	1480.
75	8.52	30.26	23.51	1480.
100	8.42	30.40	23.63	1480.
125	8.40	30.43	23.66	1481.
150	8.37	30.48	23.70	1481.

STATION J 5 CRUISE 76-22 CONS # 16
 POSITION 50-24.5N 125-56.8W
 DATE 76/ 6/22 TIME 0: 1: 3 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.71	29.89	23.19	1479.
10	8.64	30.08	23.35	1479.
20	8.60	30.19	23.45	1479.
30	8.36	30.52	23.73	1479.
50	8.11	30.86	24.04	1479.
75	7.93	31.13	24.27	1479.
100	7.90	31.19	24.33	1479.
125	7.85	31.29	24.41	1480.

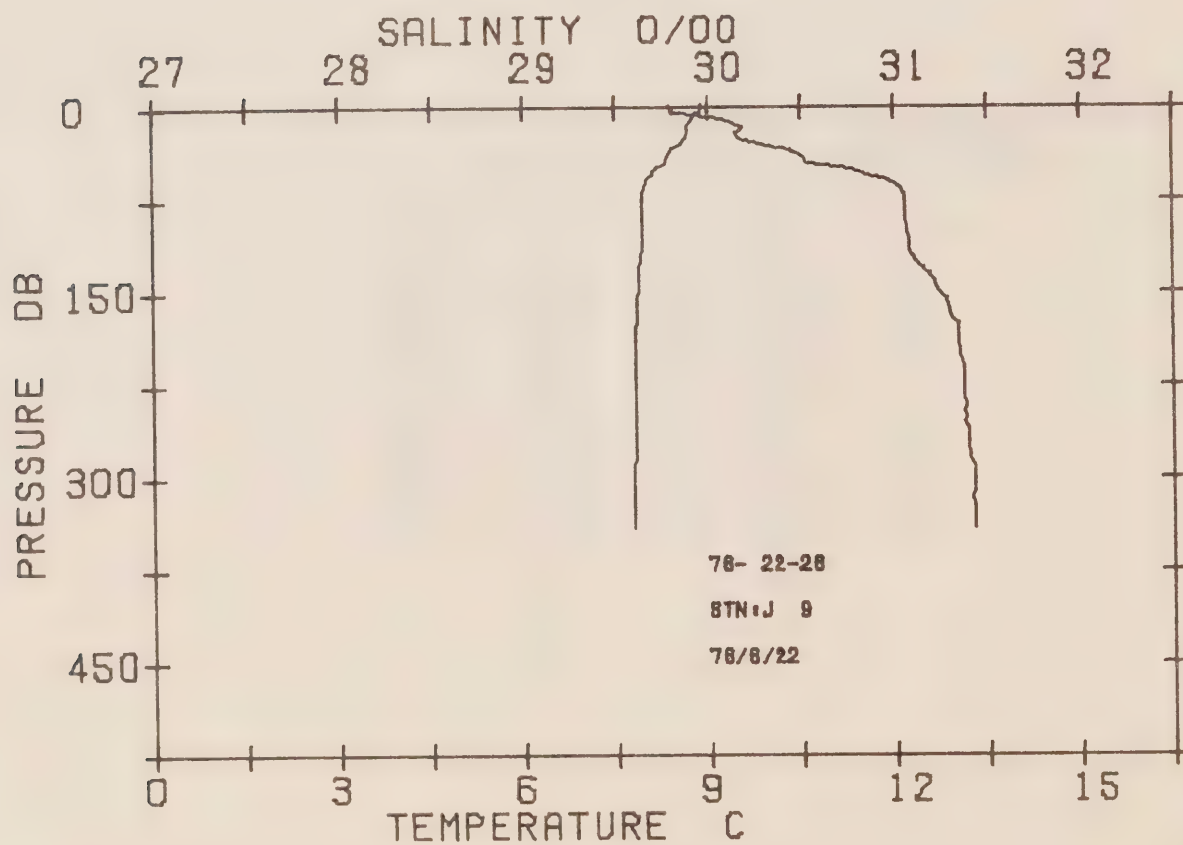
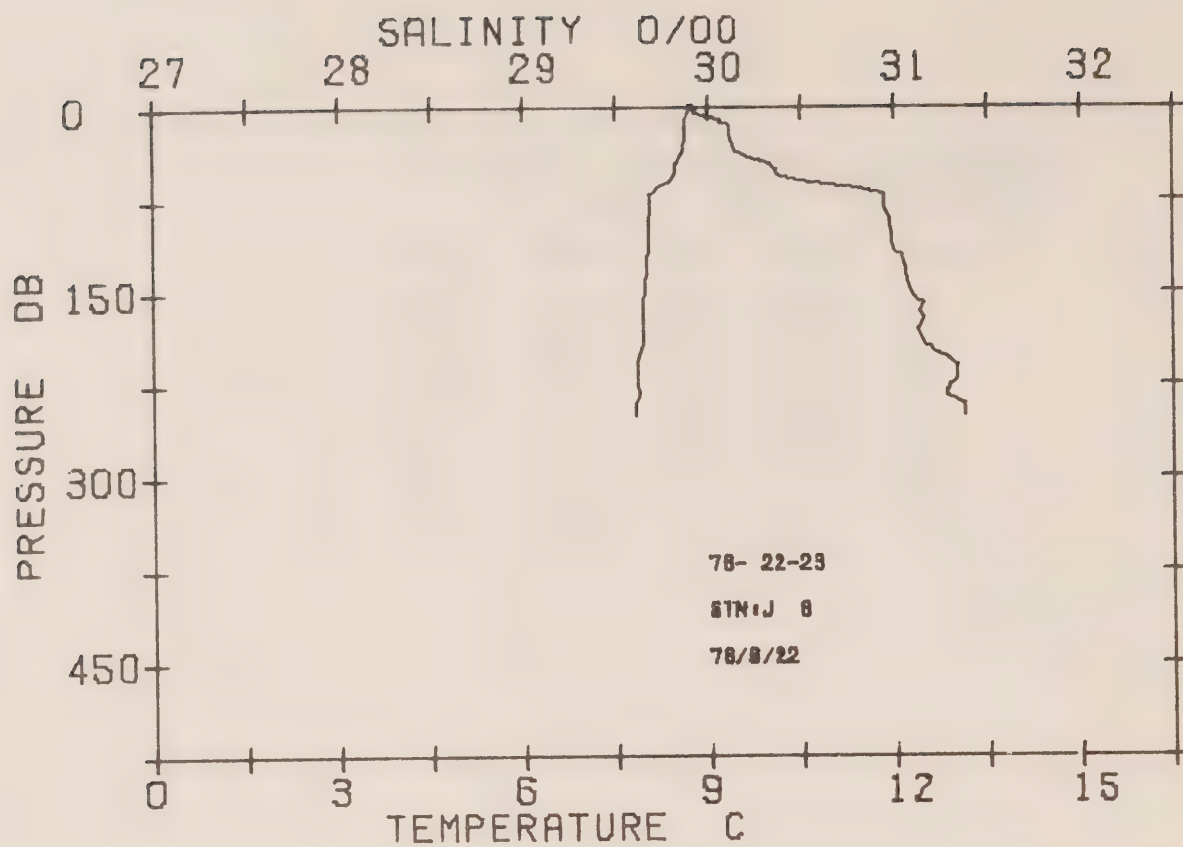


STATION J 6 CRUISE 76-22 CONS # 17
 POSITION 50-26.4N 126- .7W
 DATE 76/ 6/22 TIME 0:32:27 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.62	29.81	23.15	1479.
10	8.69	30.11	23.37	1479.
20	8.63	30.17	23.42	1479.
30	8.51	30.26	23.52	1479.
50	8.24	30.67	23.87	1479.
75	8.00	31.01	24.17	1479.
100	8.00	31.02	24.17	1479.
125	7.93	31.13	24.27	1480.
150	7.88	31.23	24.36	1480.
175	7.85	31.27	24.40	1480.
200	7.85	31.28	24.41	1481.

STATION J 7N CRUISE 76-22 CONS # 20
 POSITION 50-27.8N 126- 1.4W
 DATE 76/ 6/22 TIME 2: 1:43 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.87	28.97	22.45	1478.
10	8.64	30.01	23.30	1479.
20	8.64	30.04	23.32	1479.
30	8.63	30.10	23.37	1479.
50	8.41	30.42	23.65	1479.
75	8.01	31.02	24.17	1479.
100	7.94	31.10	24.25	1479.
125	7.88	31.22	24.35	1480.
150	7.88	31.23	24.36	1480.
175	7.86	31.28	24.40	1480.
200	7.84	31.30	24.42	1481.
225	7.83	31.34	24.45	1481.

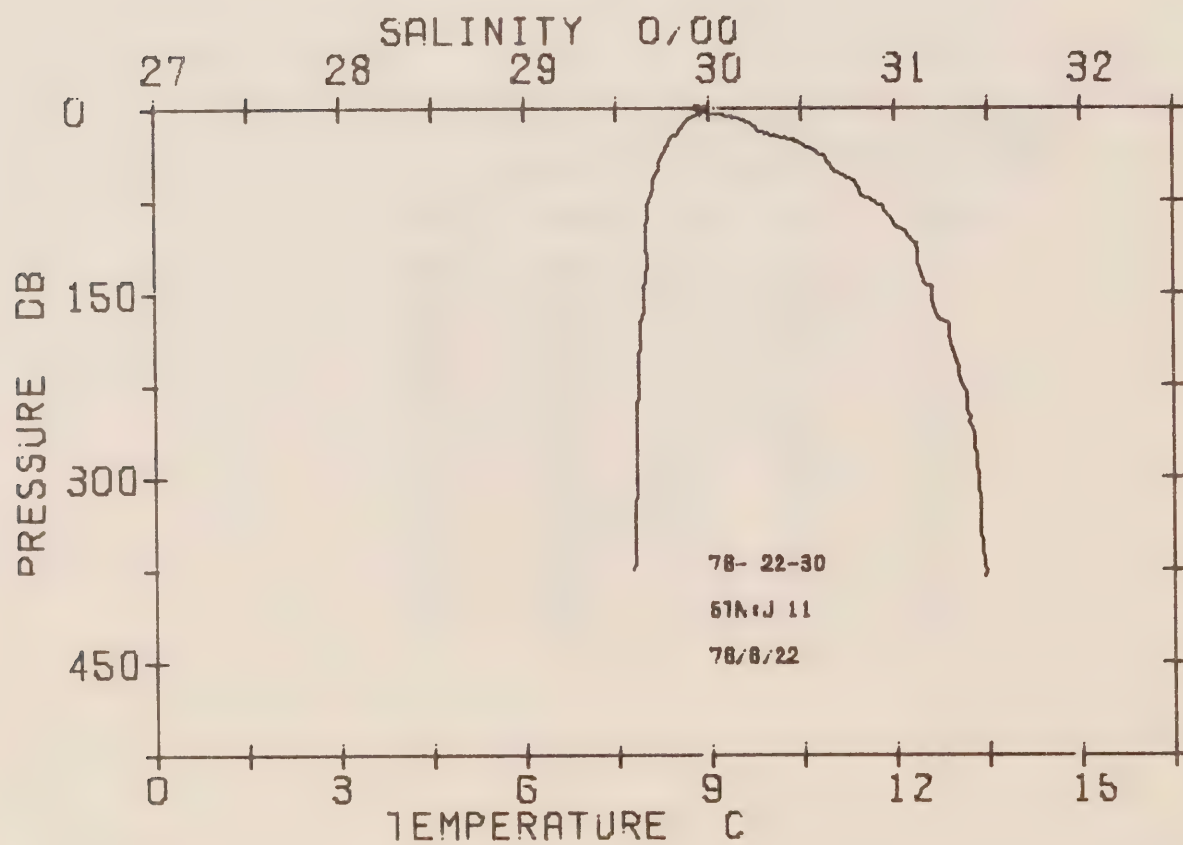
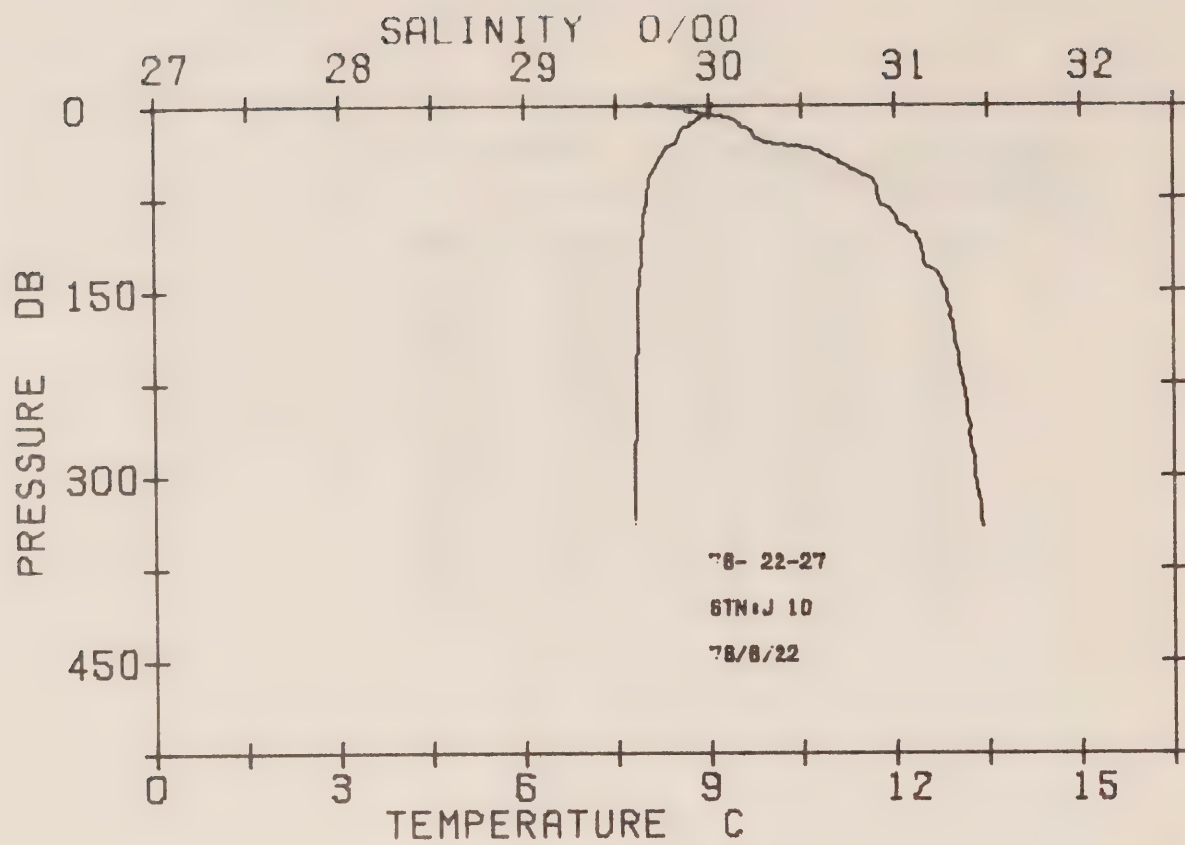


STATION J 8 CRUISE 76-22 CONS # 23
 POSITION 50-27.5N 126- 3.4W
 DATE 76/ 6/22 TIME 3:19:13 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.68	29.92	23.22	1479.
10	8.62	30.06	23.34	1479.
20	8.61	30.11	23.38	1479.
30	8.60	30.14	23.40	1479.
50	8.46	30.36	23.60	1479.
75	8.05	30.95	24.12	1479.
100	8.03	30.99	24.15	1479.
125	7.99	31.05	24.21	1480.
150	7.97	31.09	24.24	1480.
175	7.93	31.15	24.29	1480.
200	7.89	31.23	24.36	1481.
225	7.85	31.30	24.42	1481.
250	7.81	31.38	24.49	1482.

STATION J 9 CRUISE 76-22 CONS # 26
 POSITION 50-28.5N 126-10.7W
 DATE 76/ 6/22 TIME 4:43:35 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.91	29.80	23.09	1480.
10	8.74	30.08	23.34	1480.
20	8.68	30.16	23.41	1480.
30	8.58	30.28	23.52	1480.
50	8.16	30.78	23.97	1479.
75	7.94	31.06	24.22	1479.
100	7.93	31.07	24.23	1479.
125	7.91	31.13	24.28	1480.
150	7.86	31.25	24.38	1480.
175	7.83	31.34	24.45	1480.
200	7.82	31.35	24.47	1481.
225	7.80	31.38	24.49	1481.
250	7.81	31.39	24.49	1482.
275	7.80	31.40	24.51	1482.
300	7.79	31.43	24.53	1482.
325	7.79	31.43	24.53	1483.

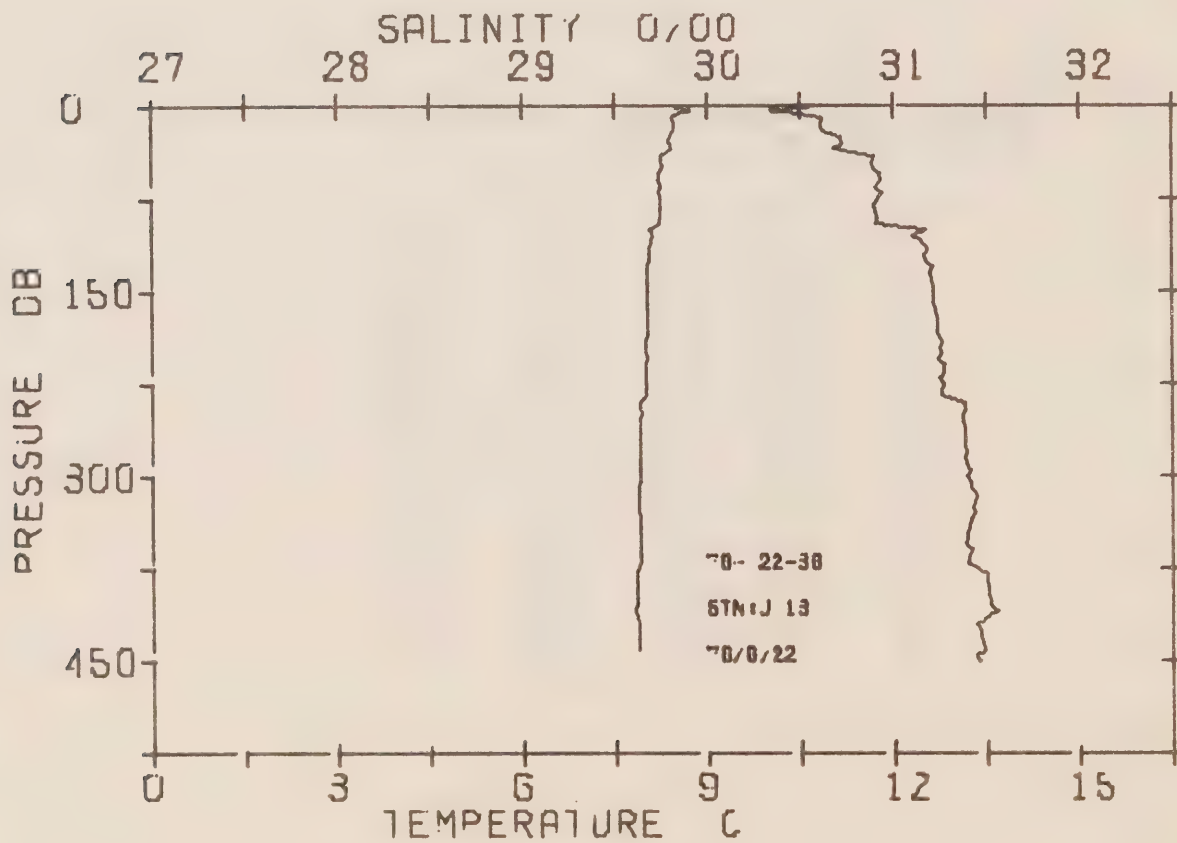
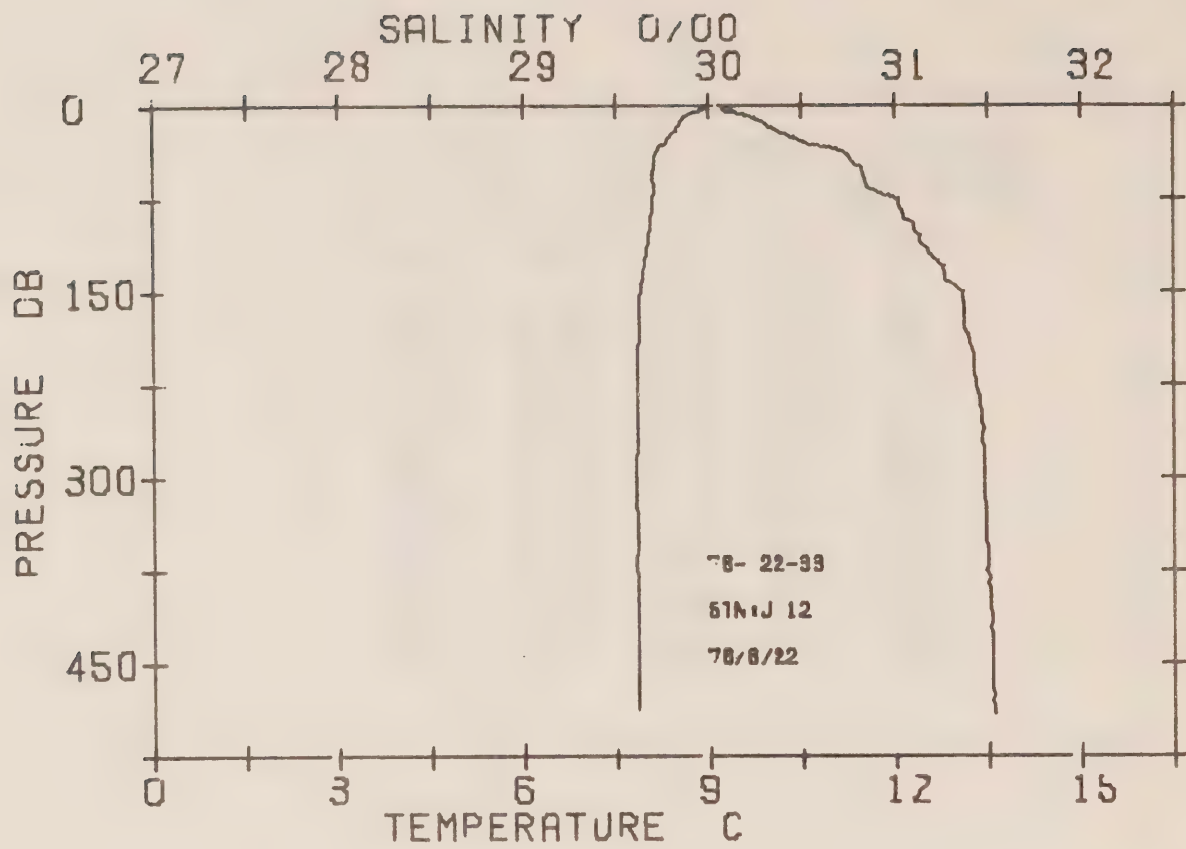


STATION J 10 CRUISE 76-22 CONS # 27
 POSITION 50-29.7N 126-18.7W
 DATE 76/ 6/22 TIME 5:31:36 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.05	29.75	23.04	1480.
10	8.87	30.11	23.34	1480.
20	8.55	30.24	23.49	1479.
30	8.49	30.30	23.55	1479.
50	8.15	30.76	23.96	1479.
75	8.01	30.92	24.10	1479.
100	7.93	31.07	24.22	1479.
125	7.91	31.16	24.30	1480.
150	7.85	31.28	24.40	1480.
175	7.84	31.31	24.42	1480.
200	7.83	31.34	24.45	1481.
225	7.82	31.36	24.47	1481.
250	7.80	31.39	24.50	1482.
275	7.79	31.41	24.51	1482.
300	7.78	31.43	24.53	1482.
325	7.77	31.46	24.55	1483.

STATION J 11 CRUISE 76-22 CONS # 30
 POSITION 50-30.0N 126-30.0W
 DATE 76/ 6/22 TIME 7:14: 2 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.95	29.95	23.21	1480.
10	8.65	30.20	23.45	1479.
20	8.50	30.30	23.55	1479.
30	8.33	30.52	23.74	1479.
50	8.18	30.68	23.89	1479.
75	8.02	30.90	24.08	1479.
100	7.97	31.06	24.21	1479.
125	7.99	31.13	24.26	1480.
150	7.93	31.20	24.33	1480.
175	7.87	31.29	24.41	1480.
200	7.85	31.32	24.43	1481.
225	7.83	31.36	24.47	1481.
250	7.82	31.41	24.51	1482.
275	7.80	31.43	24.53	1482.
300	7.80	31.45	24.54	1482.
325	7.79	31.46	24.55	1483.
350	7.78	31.47	24.56	1483.
375	7.76	31.49	24.58	1484.

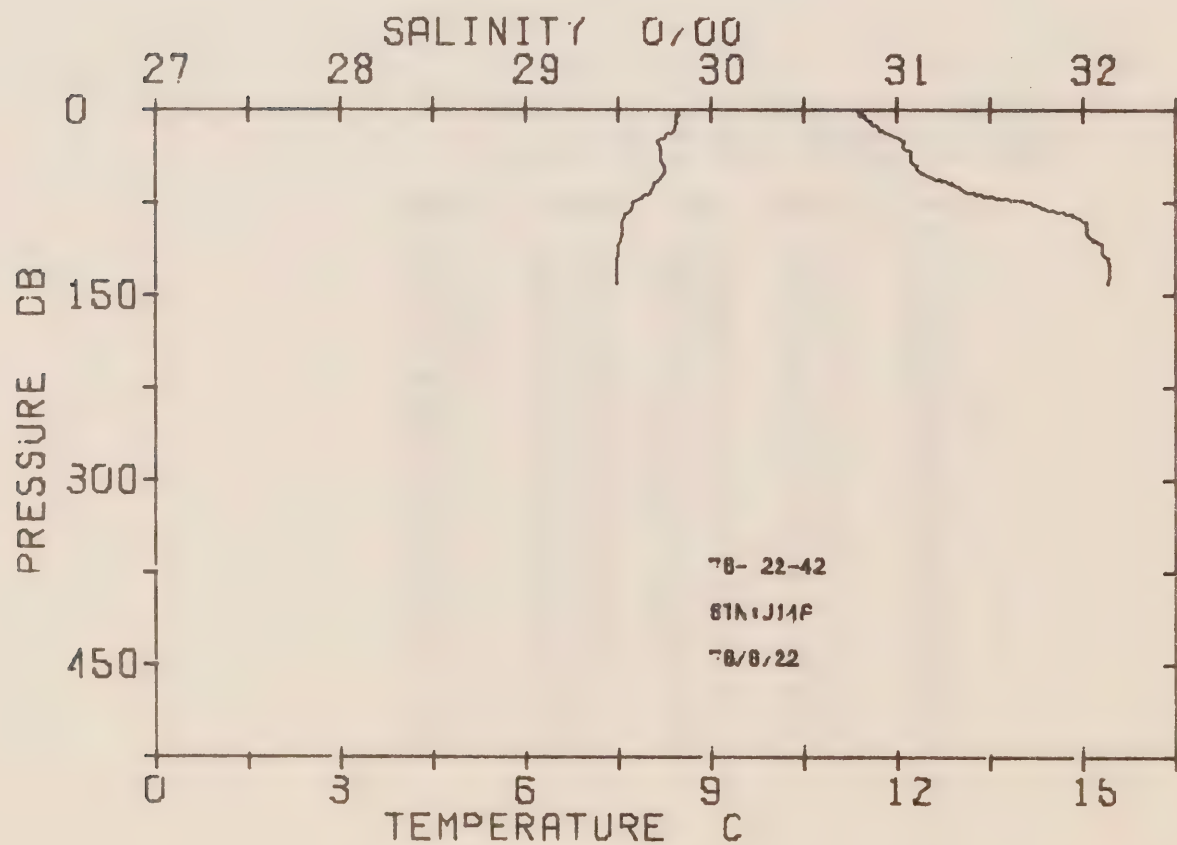
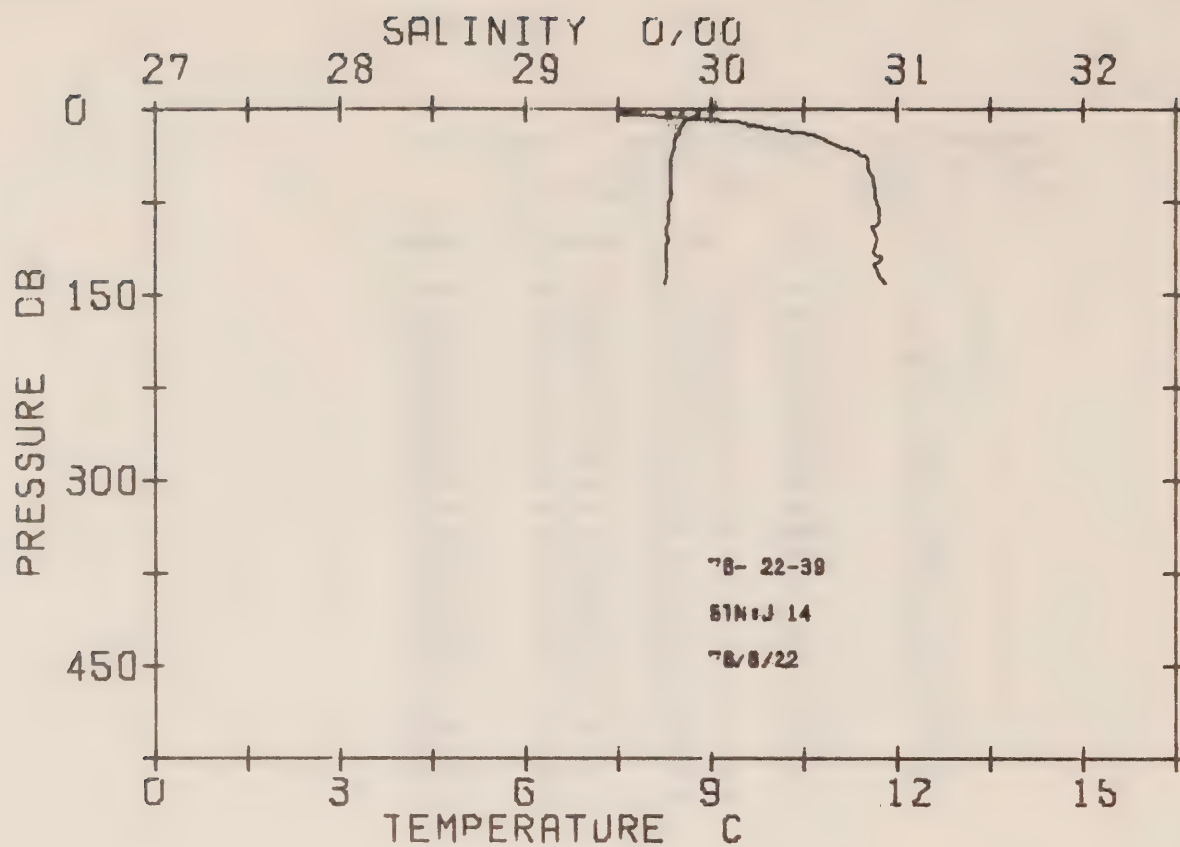


STATION J 12 CRUISE 76-22 CONS # 33
 POSITION 50-31.7N 126-41.0W
 DATE 76/ 6/22 TIME 8:56:40 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.86	30.10	23.34	1480.
10	8.60	30.25	23.49	1479.
20	8.46	30.38	23.62	1479.
30	8.32	30.51	23.74	1479.
50	8.11	30.82	24.01	1479.
75	8.09	31.02	24.16	1479.
100	8.05	31.10	24.23	1480.
125	7.98	31.23	24.34	1480.
150	7.90	31.36	24.46	1480.
175	7.88	31.38	24.48	1481.
200	7.85	31.43	24.52	1481.
225	7.84	31.44	24.53	1481.
250	7.84	31.47	24.55	1482.
275	7.83	31.48	24.56	1482.
300	7.82	31.48	24.56	1483.
325	7.82	31.49	24.57	1483.
350	7.83	31.49	24.57	1483.
375	7.82	31.49	24.57	1484.
400	7.84	31.51	24.59	1484.
425	7.84	31.52	24.59	1485.
450	7.83	31.52	24.59	1485.
475	7.84	31.53	24.60	1486.

STATION J 13 CRUISE 76-22 CONS # 36
 POSITION 50-33.3N 126-47.0W
 DATE 76/ 6/22 TIME 10:37:12 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.51	30.52	23.72	1479.
10	8.45	30.62	23.80	1479.
20	8.47	30.62	23.80	1479.
30	8.39	30.73	23.90	1479.
50	8.27	30.90	24.05	1479.
75	8.24	30.92	24.06	1480.
100	8.05	31.18	24.30	1480.
125	8.06	31.18	24.29	1480.
150	8.04	31.22	24.33	1481.
175	8.02	31.24	24.35	1481.
200	8.01	31.26	24.37	1481.
225	8.00	31.27	24.37	1482.
250	7.93	31.37	24.46	1482.
275	7.92	31.39	24.48	1482.
300	7.91	31.40	24.49	1483.
325	7.89	31.43	24.52	1483.
350	7.91	31.40	24.49	1484.
375	7.88	31.46	24.54	1484.
400	7.83	31.52	24.59	1484.
425	7.88	31.47	24.55	1485.
450	7.89	31.46	24.54	1485.



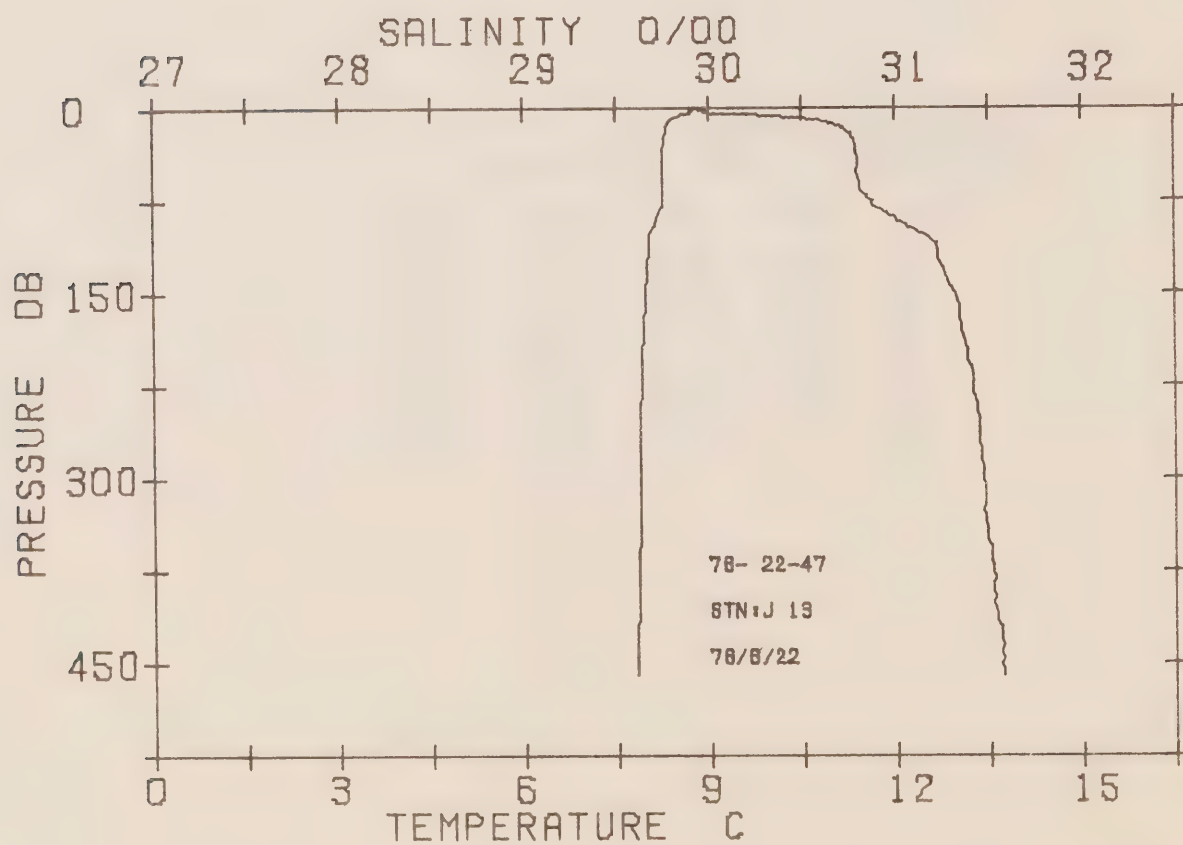
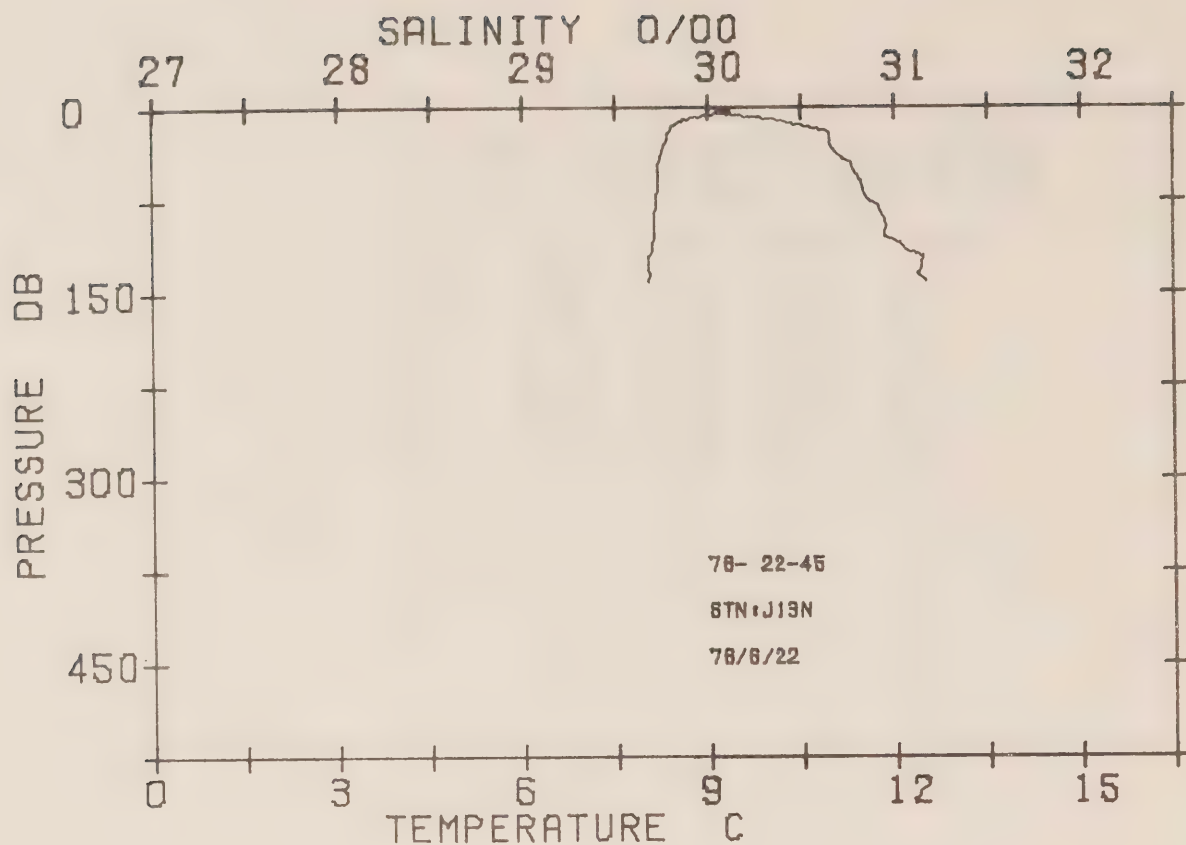
STATION J 14 CRUISE 76-22 CONS # 39
 POSITION 50-34.0N 126-52.0W
 DATE 76/ 6/22 TIME 12:34:32 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.77	29.53	22.91	1479.
10	8.55	30.14	23.41	1479.
20	8.44	30.56	23.75	1479.
30	8.40	30.69	23.87	1479.
50	8.34	30.85	24.00	1480.
75	8.31	30.90	24.04	1480.
100	8.28	30.89	24.04	1480.
125	8.28	30.89	24.04	1481.

STATION J14A CRUISE 76-22 CONS # 42
 POSITION 50-35.4N 126-50.0W
 DATE 76/ 6/22 TIME 14:48:49 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.46	30.80	23.94	1479.
10	8.45	30.85	23.98	1479.
20	8.29	30.97	24.10	1479.
30	8.19	31.03	24.16	1479.
50	8.24	31.12	24.22	1480.
75	7.76	31.73	24.77	1479.
100	7.55	32.02	25.03	1479.
125	7.46	32.15	25.14	1479.

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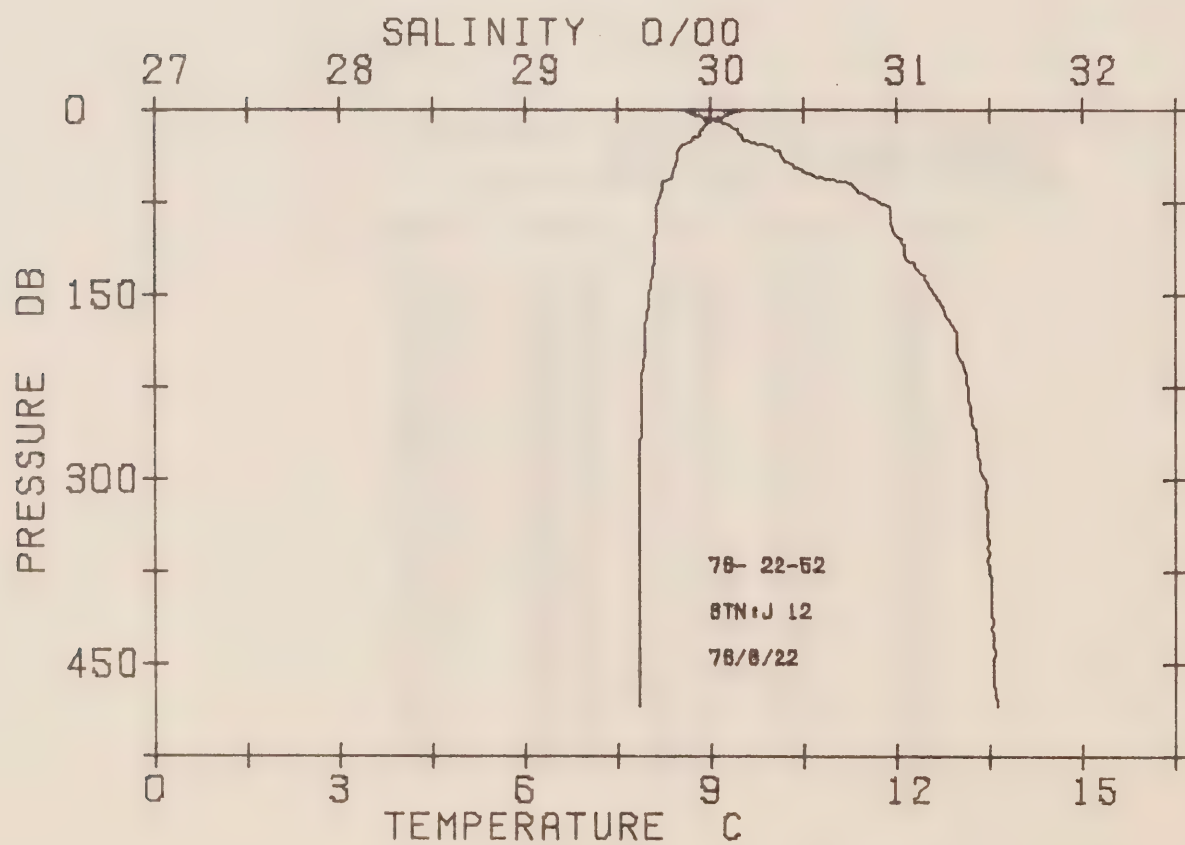
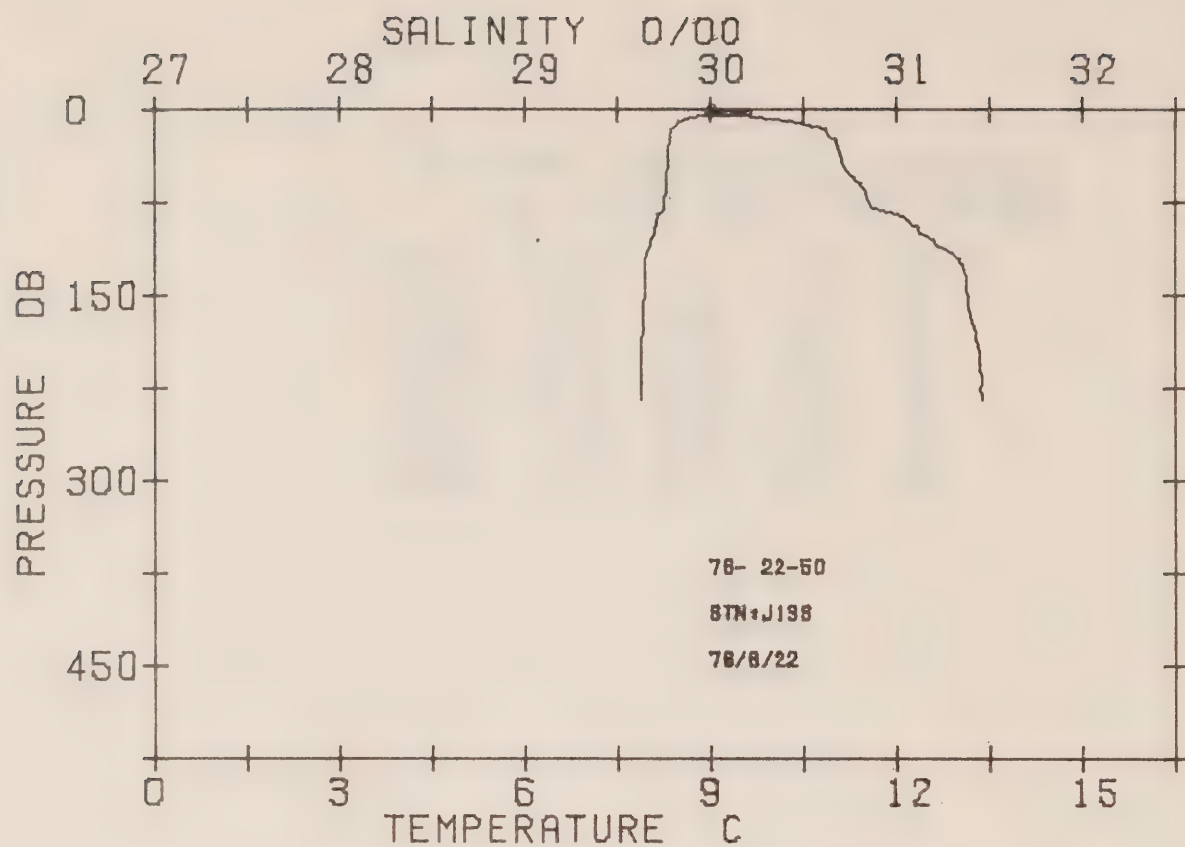


STATION J13N CRUISE 76-22 CONS # 45
 POSITION 50-33.5N 126-46.9W
 DATE 76/ 6/22 TIME 15:58:44 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.23	30.04	23.23	1481.
10	8.58	30.34	23.56	1479.
20	8.34	30.66	23.84	1479.
30	8.29	30.66	23.85	1479.
50	8.20	30.78	23.96	1479.
75	8.17	30.86	24.03	1479.
100	8.13	30.95	24.11	1480.
125	8.03	31.15	24.28	1480.

STATION J 13 CRUISE 76-22 CONS # 47
 POSITION 50-33.3N 126-47.0W
 DATE 76/ 6/22 TIME 16:55:28 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.76	29.94	23.22	1479.
10	8.39	30.59	23.79	1479.
20	8.30	30.76	23.94	1479.
30	8.27	30.79	23.96	1479.
50	8.26	30.79	23.97	1479.
75	8.25	30.87	24.02	1480.
100	8.07	31.13	24.26	1480.
125	8.01	31.24	24.35	1480.
150	7.96	31.32	24.42	1480.
175	7.95	31.35	24.44	1481.
200	7.92	31.39	24.48	1481.
225	7.90	31.42	24.51	1482.
250	7.89	31.45	24.53	1482.
275	7.88	31.46	24.54	1482.
300	7.88	31.47	24.55	1483.
325	7.87	31.47	24.55	1483.
350	7.86	31.49	24.57	1484.
375	7.85	31.52	24.59	1484.
400	7.84	31.52	24.60	1484.
425	7.82	31.56	24.63	1485.
450	7.82	31.56	24.63	1485.

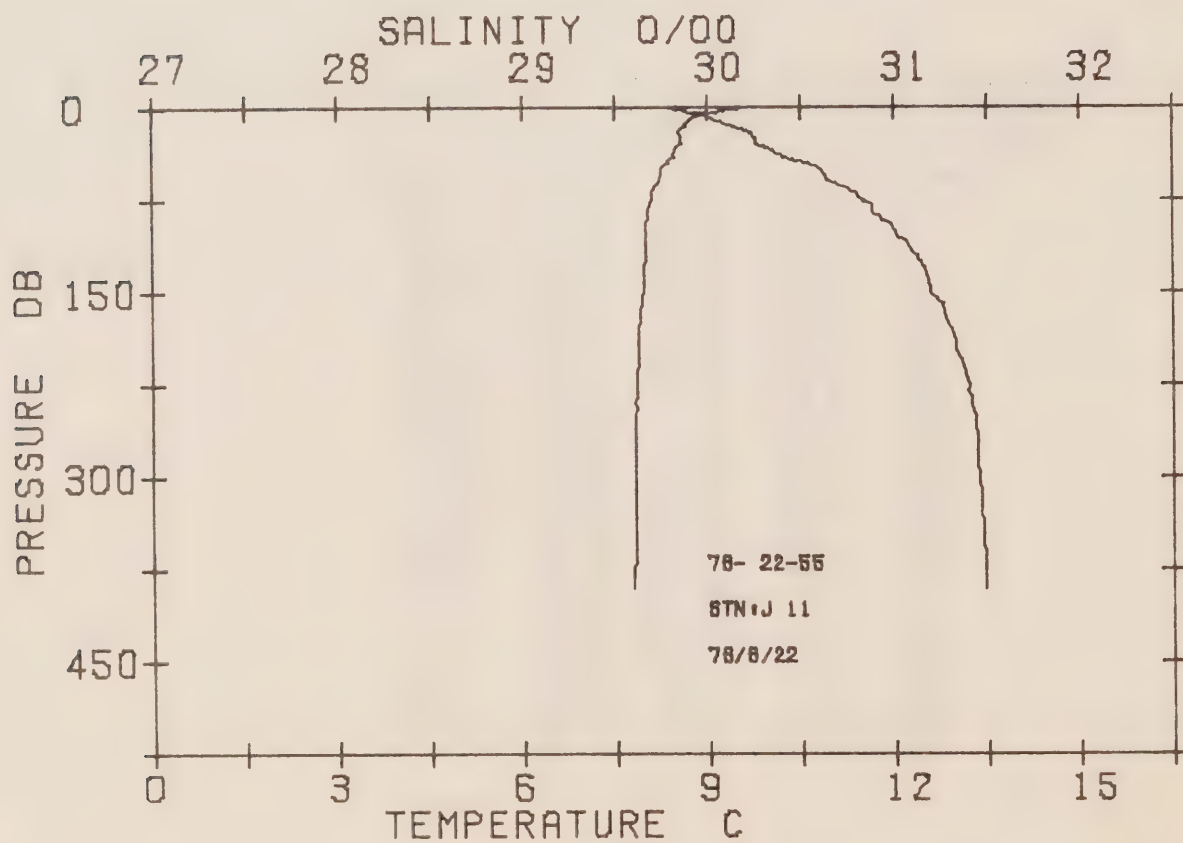
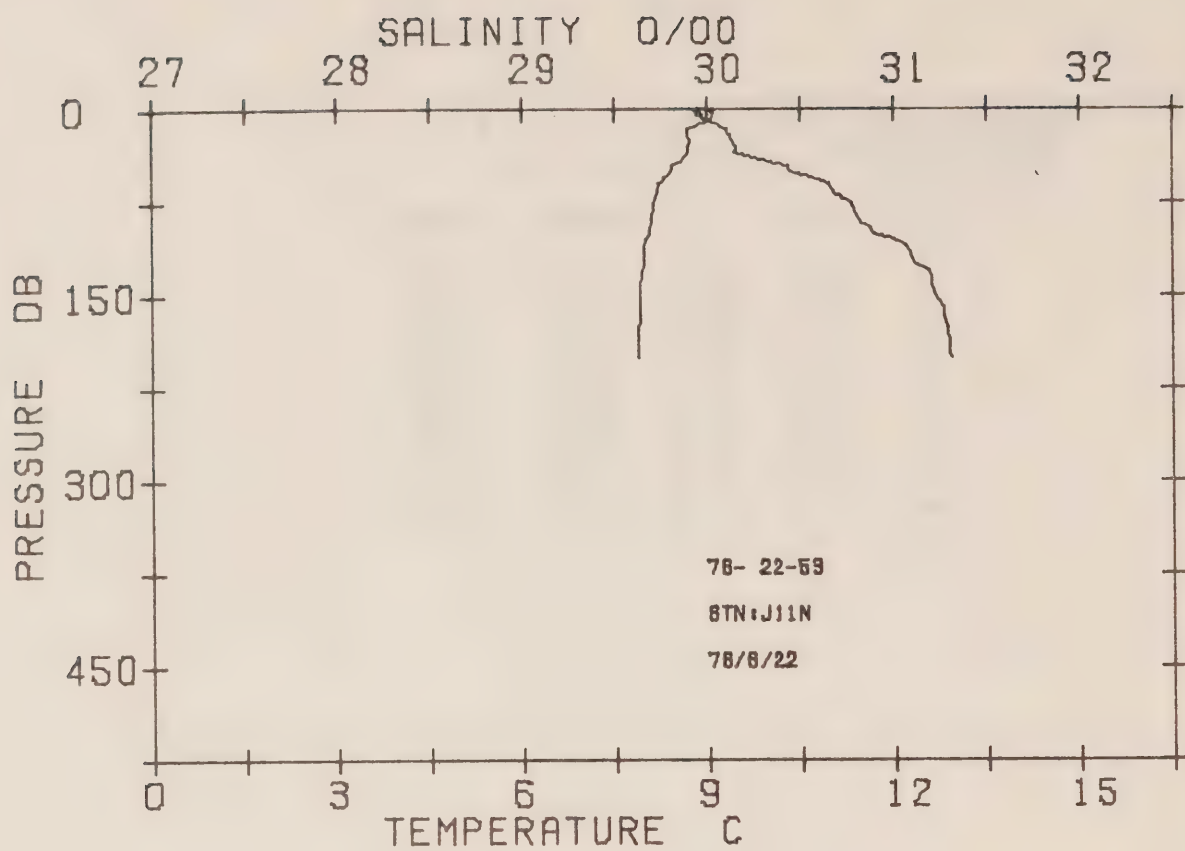


STATION J13S CRUISE 76-22 CONS # 50
 POSITION 50-32.9N 126-47.4W
 DATE 76/ 6/22 TIME 18: 9:44 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.53	30.02	23.17	1482.
10	8.49	30.43	23.65	1479.
20	8.35	30.64	23.83	1479.
30	8.31	30.69	23.88	1479.
50	8.29	30.74	23.92	1479.
75	8.25	30.85	24.01	1480.
100	8.08	31.13	24.25	1480.
125	7.94	31.35	24.45	1480.
150	7.93	31.39	24.48	1480.
175	7.90	31.42	24.51	1481.
200	7.89	31.45	24.53	1481.
225	7.88	31.45	24.53	1482.

STATION J 12 CRUISE 76-22 CONS # 52
 POSITION 50-31.7N 126-41.0W
 DATE 76/ 6/22 TIME 19:15:35 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.40	29.89	23.09	1482.
10	8.97	30.06	23.29	1480.
20	8.81	30.17	23.40	1480.
30	8.52	30.33	23.57	1479.
50	8.41	30.50	23.71	1479.
75	8.15	30.92	24.08	1479.
100	8.13	30.99	24.13	1480.
125	8.08	31.09	24.22	1480.
150	8.01	31.21	24.33	1480.
175	7.94	31.30	24.40	1481.
200	7.93	31.33	24.43	1481.
225	7.88	31.39	24.48	1481.
250	7.87	31.41	24.50	1482.
275	7.85	31.44	24.53	1482.
300	7.84	31.48	24.56	1483.
325	7.84	31.49	24.57	1483.
350	7.84	31.50	24.57	1483.
375	7.84	31.50	24.58	1484.
400	7.84	31.51	24.59	1484.
425	7.84	31.52	24.59	1485.
450	7.84	31.52	24.60	1485.
475	7.83	31.53	24.60	1485.

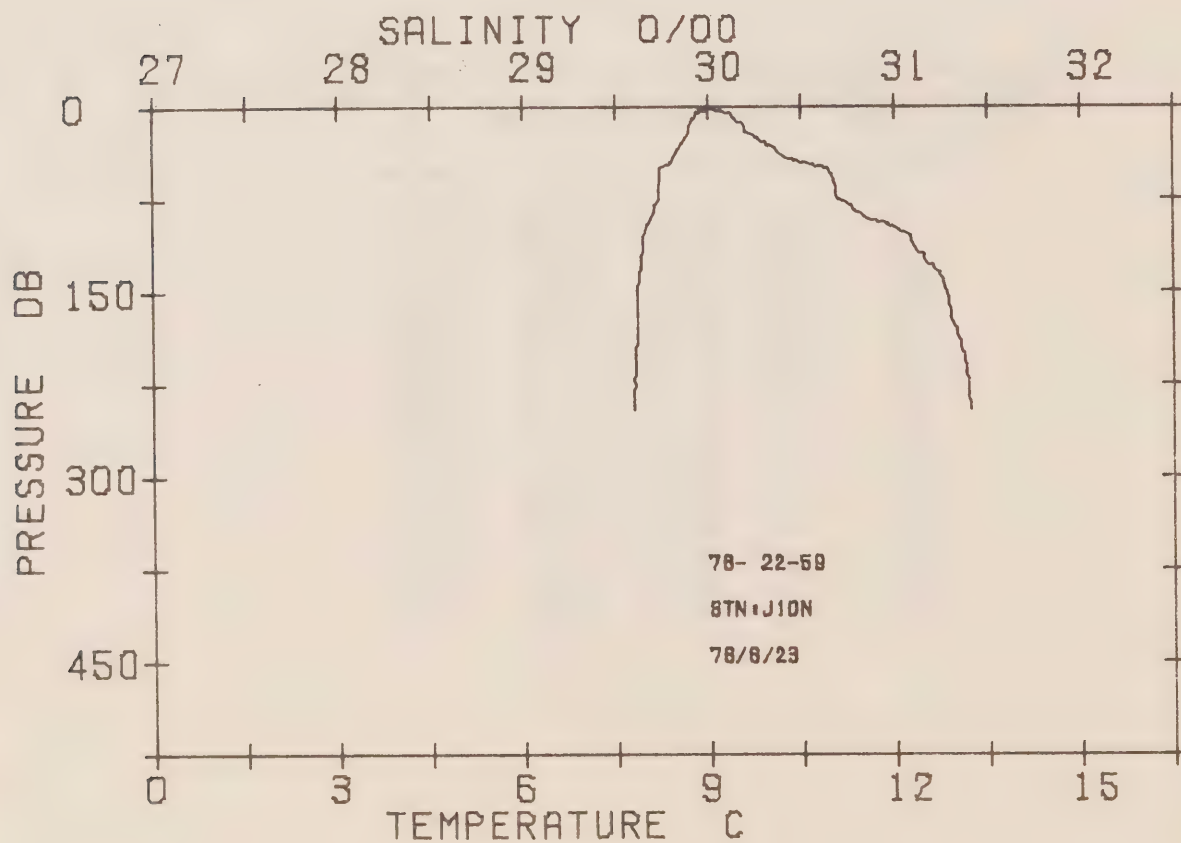
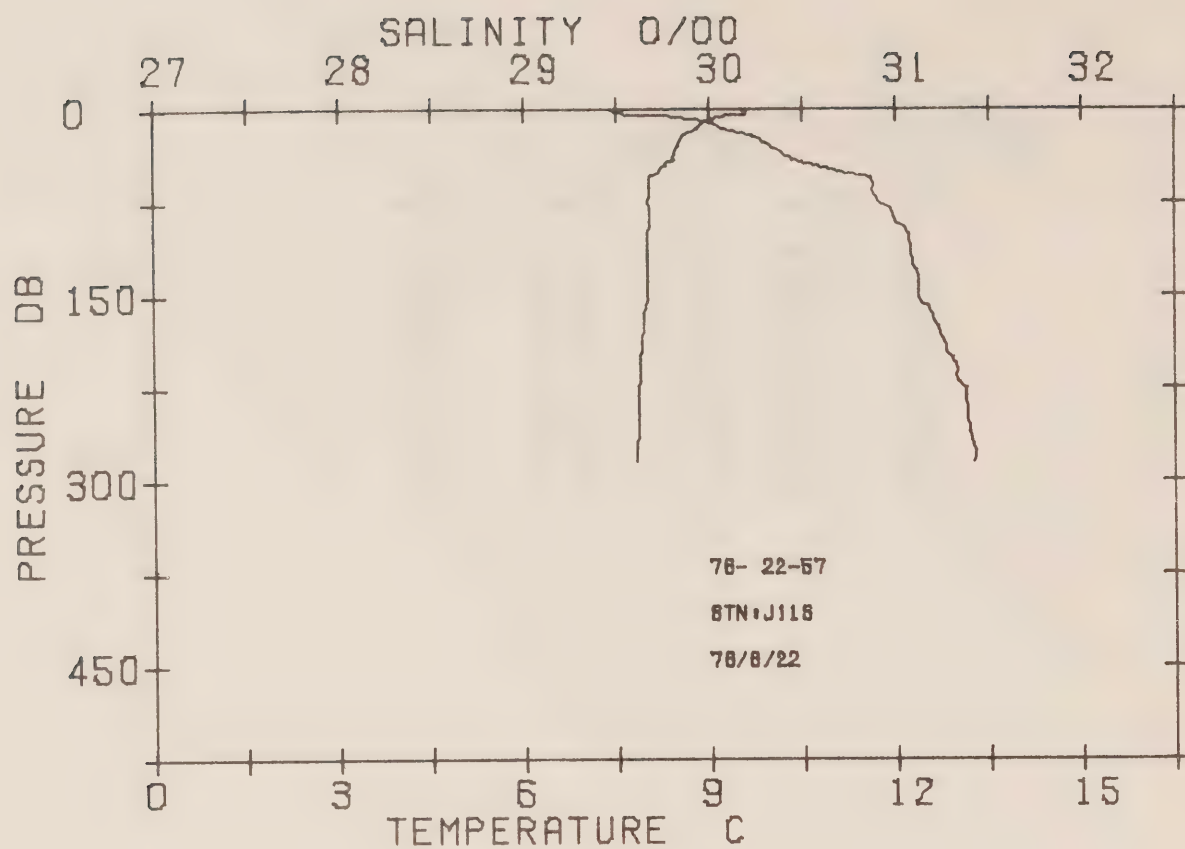


STATION J11N CRUISE 76-22 CONS # 53
 POSITION 50-30.7N 126-30.0W
 DATE 76/ 6/22 TIME 20:57:16 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.07	29.95	23.19	1480.
10	9.03	30.01	23.24	1481.
20	8.70	30.13	23.38	1480.
30	8.69	30.16	23.41	1480.
50	8.41	30.45	23.68	1479.
75	8.12	30.78	23.98	1479.
100	8.05	30.90	24.08	1479.
125	7.97	31.12	24.26	1480.
150	7.92	31.23	24.36	1480.
175	7.89	31.29	24.40	1481.
200	7.88	31.31	24.42	1481.

STATION J 11 CRUISE 76-22 CONS # 55
 POSITION 50-30.0N 126-30.0W
 DATE 76/ 6/22 TIME 21:51:14 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.52	29.80	23.00	1482.
10	8.73	30.03	23.30	1479.
20	8.54	30.24	23.49	1479.
30	8.55	30.26	23.51	1479.
50	8.26	30.61	23.82	1479.
75	8.08	30.83	24.02	1479.
100	8.01	31.01	24.17	1479.
125	7.99	31.15	24.29	1480.
150	7.96	31.20	24.33	1480.
175	7.90	31.29	24.41	1481.
200	7.88	31.34	24.44	1481.
225	7.83	31.41	24.51	1481.
250	7.82	31.44	24.53	1482.
275	7.82	31.45	24.54	1482.
300	7.82	31.46	24.55	1482.
325	7.81	31.47	24.56	1483.
350	7.80	31.48	24.56	1483.
375	7.79	31.49	24.58	1484.

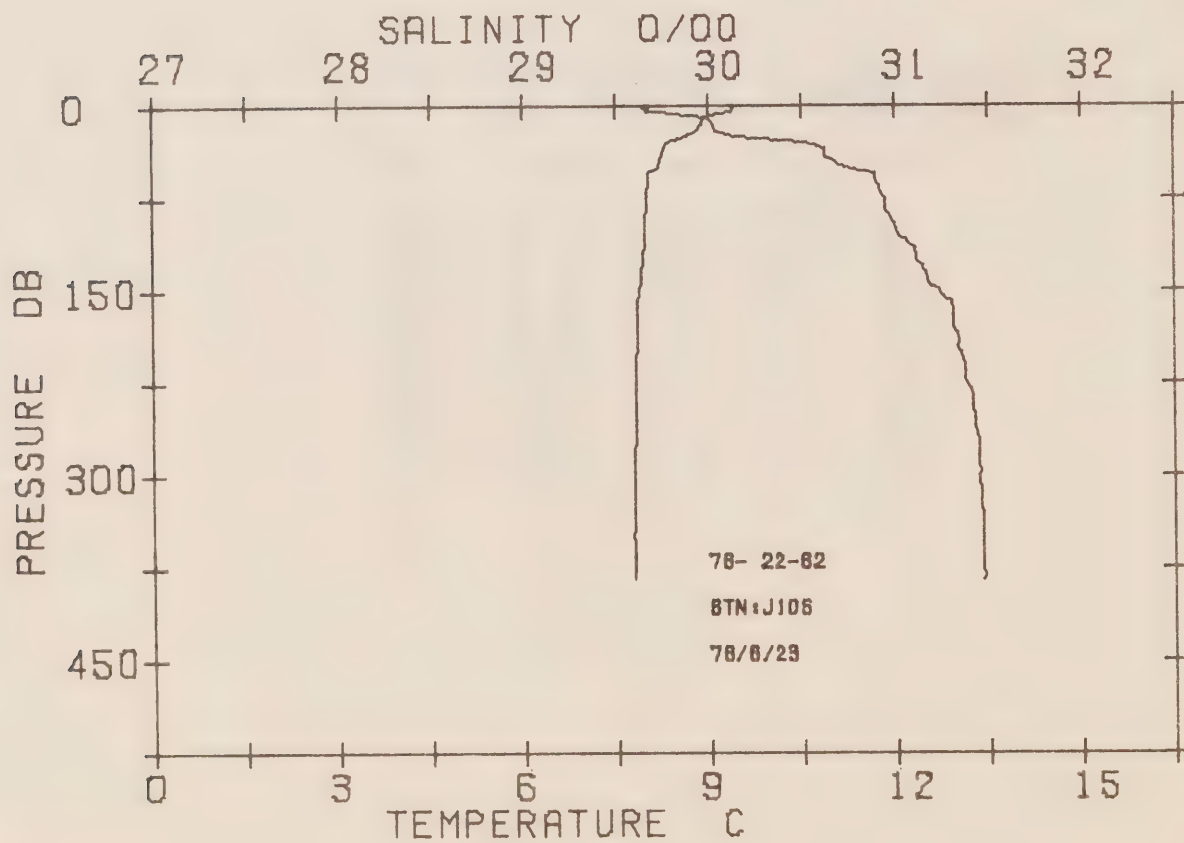
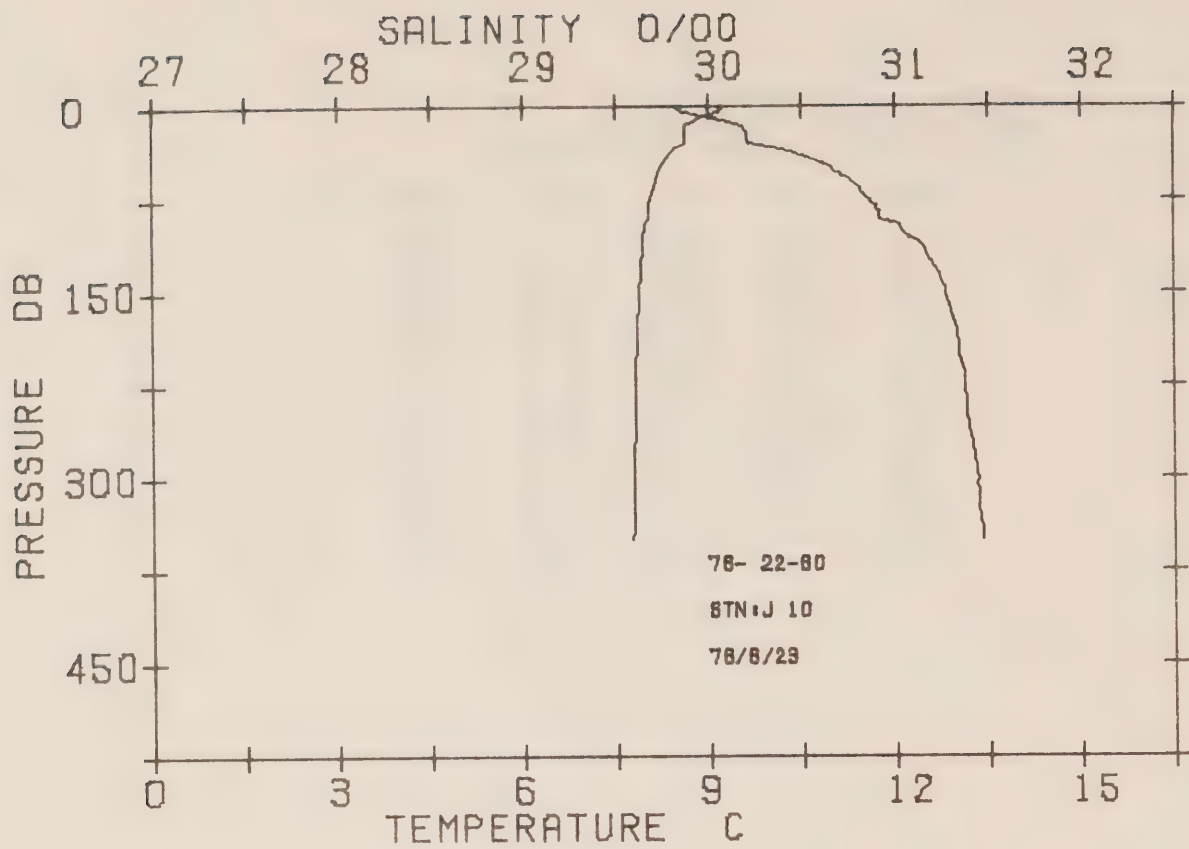


STATION J11S CRUISE 76-22 CONS # 57
 POSITION 50-29.4N 126-30.0W
 DATE 76/ 6/22 TIME 23: 6:36 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.54	29.52	22.78	1482.
10	8.90	30.00	23.25	1480.
20	8.58	30.23	23.48	1479.
30	8.50	30.33	23.57	1479.
50	8.20	30.70	23.90	1479.
75	8.01	30.92	24.10	1479.
100	8.01	31.07	24.22	1479.
125	8.00	31.09	24.24	1480.
150	8.00	31.13	24.26	1480.
175	7.94	31.23	24.35	1481.
200	7.89	31.30	24.41	1481.
225	7.85	31.37	24.47	1481.
250	7.84	31.39	24.49	1482.
275	7.82	31.43	24.52	1482.

STATION J10N CRUISE 76-22 CONS # 59
 POSITION 50-30.5N 126-18.4W
 DATE 76/ 6/23 TIME 0:43:21 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.06	29.96	23.20	1480.
10	8.76	30.15	23.39	1480.
20	8.69	30.20	23.44	1480.
30	8.56	30.31	23.55	1479.
50	8.23	30.65	23.86	1479.
75	8.20	30.70	23.90	1479.
100	7.97	31.03	24.19	1479.
125	7.91	31.17	24.31	1480.
150	7.85	31.28	24.41	1480.
175	7.84	31.31	24.43	1480.
200	7.81	31.37	24.48	1481.
225	7.80	31.40	24.51	1481.

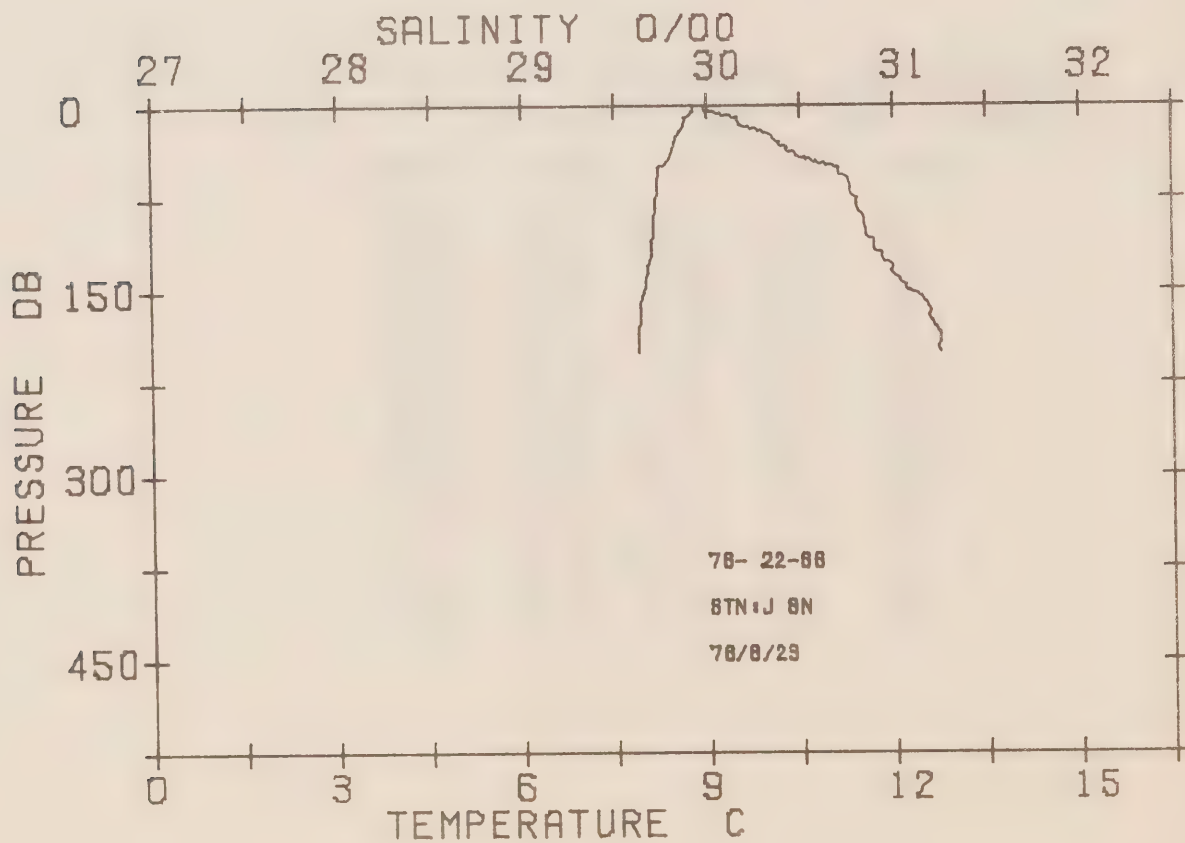
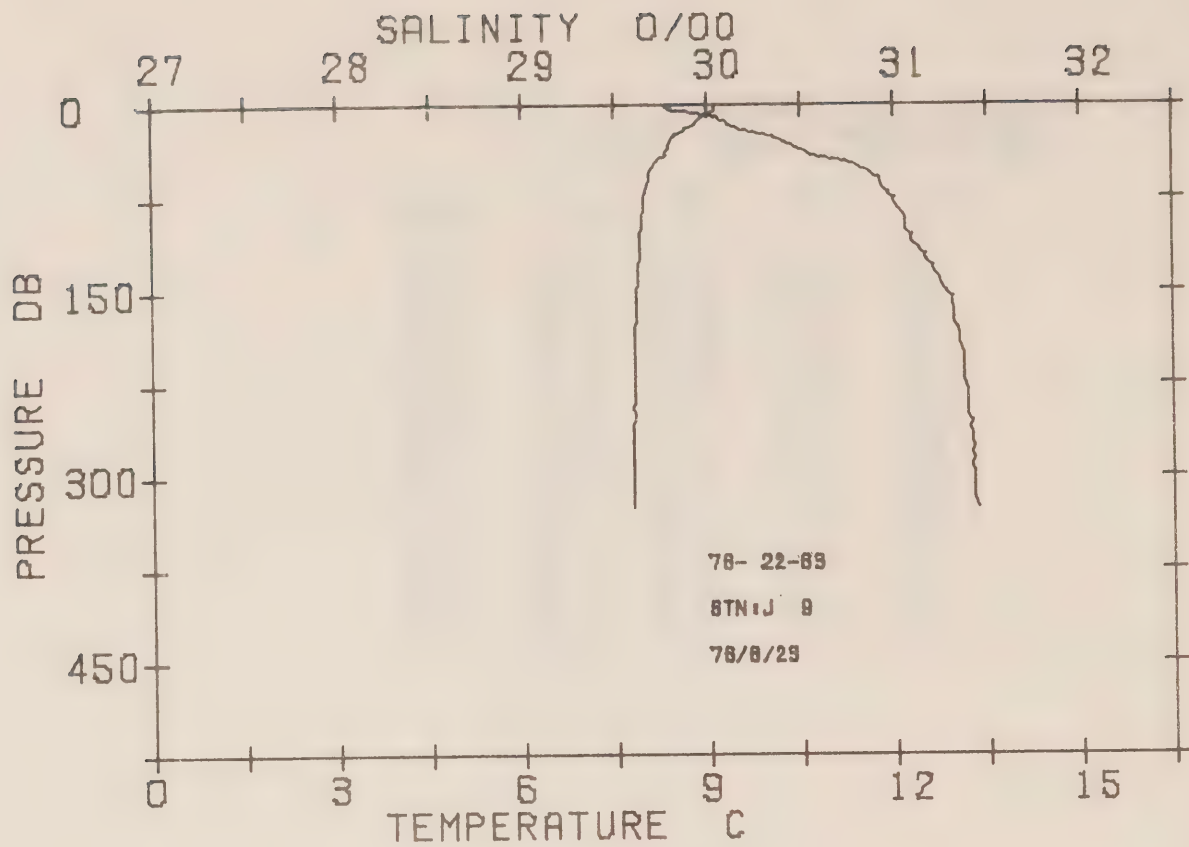


STATION J 10 CRUISE 76-22 CONS # 60
 POSITION 50-29.7N 126-18.7W
 DATE 76/ 6/23 TIME 1:14:25 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.19	29.84	23.09	1481.
10	8.85	30.04	23.29	1480.
20	8.61	30.21	23.46	1479.
30	8.61	30.22	23.46	1480.
50	8.23	30.67	23.87	1479.
75	8.06	30.86	24.05	1479.
100	7.96	31.04	24.20	1479.
125	7.91	31.20	24.33	1480.
150	7.89	31.27	24.39	1480.
175	7.84	31.32	24.44	1480.
200	7.83	31.34	24.45	1481.
225	7.81	31.38	24.49	1481.
250	7.81	31.39	24.50	1482.
275	7.79	31.42	24.52	1482.
300	7.78	31.45	24.54	1482.
325	7.77	31.45	24.55	1483.
350	7.76	31.47	24.56	1483.

STATION J10S CRUISE 76-22 CONS # 62
 POSITION 50-29.2N 126-19.2W
 DATE 76/ 6/23 TIME 1:49:37 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.41	29.67	22.92	1481.
10	8.94	30.00	23.24	1480.
20	8.84	30.04	23.29	1480.
30	8.35	30.53	23.74	1479.
50	8.18	30.73	23.92	1479.
75	8.00	30.95	24.12	1479.
100	7.97	31.01	24.18	1479.
125	7.94	31.11	24.26	1480.
150	7.88	31.24	24.37	1480.
175	7.84	31.31	24.42	1480.
200	7.83	31.35	24.46	1481.
225	7.81	31.39	24.49	1481.
250	7.80	31.43	24.53	1482.
275	7.80	31.45	24.54	1482.
300	7.79	31.45	24.55	1482.
325	7.79	31.46	24.55	1483.
350	7.76	31.47	24.57	1483.
375	7.77	31.47	24.57	1484.

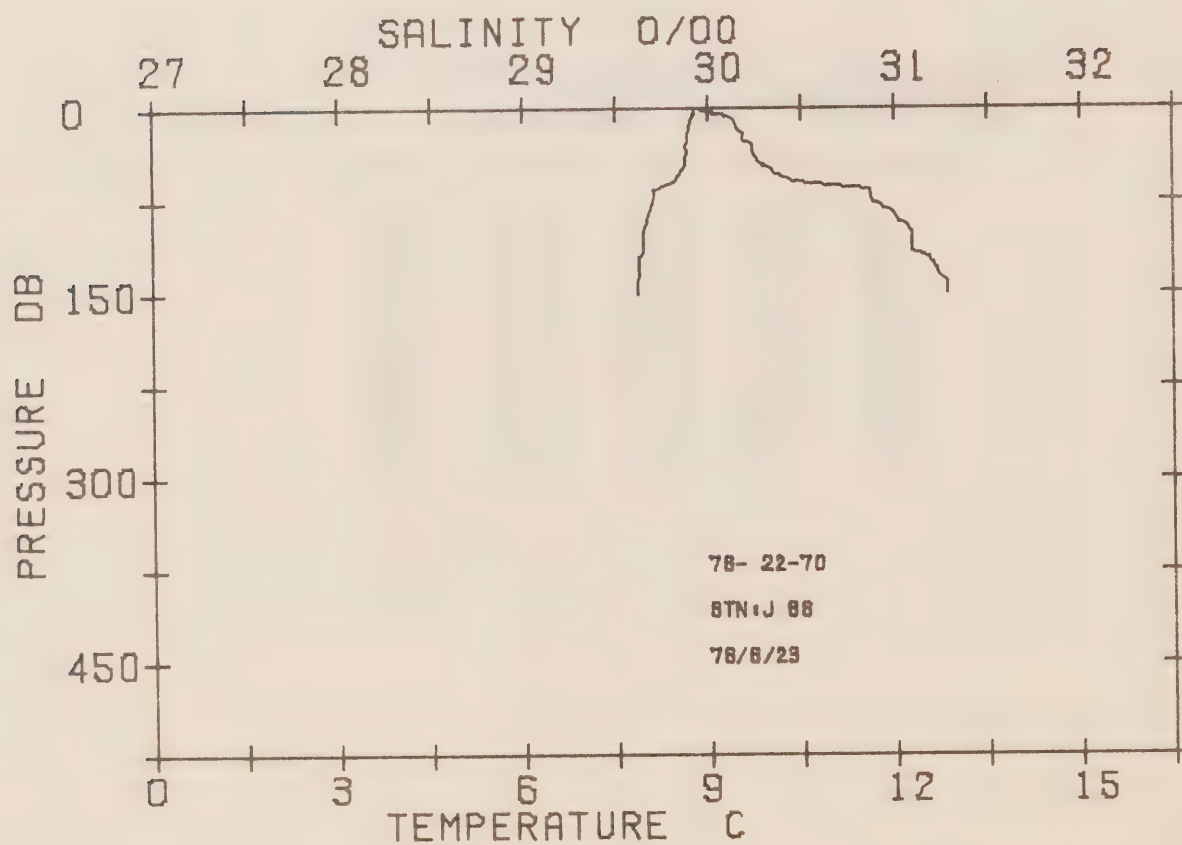
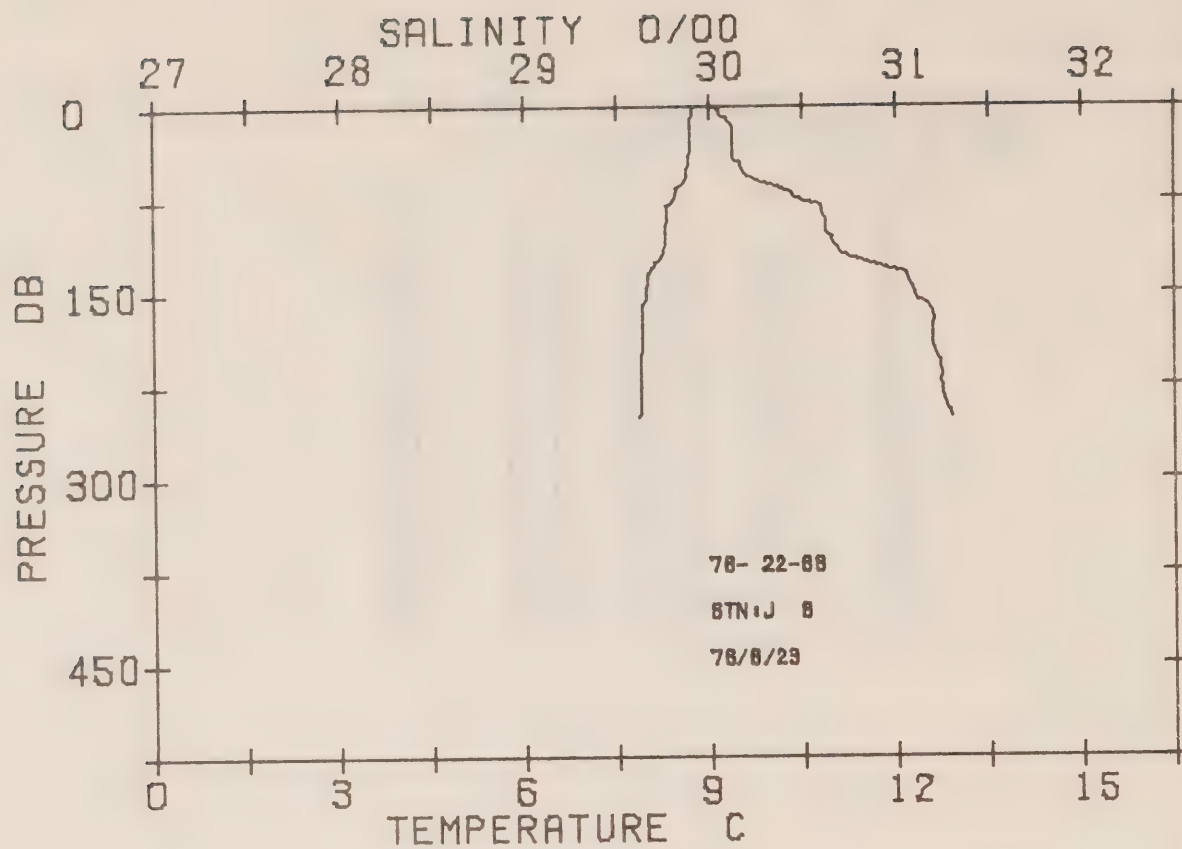


STATION J 9 CRUISE 76-22 CONS # 63
 POSITION 50-28.5N 126-10.7W
 DATE 76/ 6/23 TIME 2:53:30 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.13	29.80	23.06	1480.
10	8.92	30.06	23.29	1480.
20	8.63	30.20	23.45	1479.
30	8.41	30.42	23.65	1479.
50	8.13	30.82	24.00	1479.
75	7.97	31.00	24.17	1479.
100	7.94	31.06	24.22	1479.
125	7.90	31.18	24.32	1480.
150	7.85	31.28	24.40	1480.
175	7.83	31.32	24.44	1480.
200	7.81	31.37	24.48	1481.
225	7.80	31.39	24.49	1481.
250	7.80	31.40	24.51	1482.
275	7.79	31.43	24.53	1482.
300	7.78	31.43	24.53	1482.
325	7.77	31.45	24.55	1483.

STATION J 8N CRUISE 76-22 CONS # 66
 POSITION 50-28.3N 126- 2.9W
 DATE 76/ 6/23 TIME 4:33:56 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.78	30.00	23.27	1479.
10	8.66	30.17	23.42	1479.
20	8.55	30.30	23.54	1479.
30	8.47	30.39	23.62	1479.
50	8.23	30.71	23.90	1479.
75	8.16	30.80	23.98	1479.
100	8.13	30.85	24.03	1480.
125	8.06	30.95	24.12	1480.
150	7.96	31.08	24.23	1480.
175	7.90	31.21	24.34	1480.
200	7.87	31.25	24.38	1481.

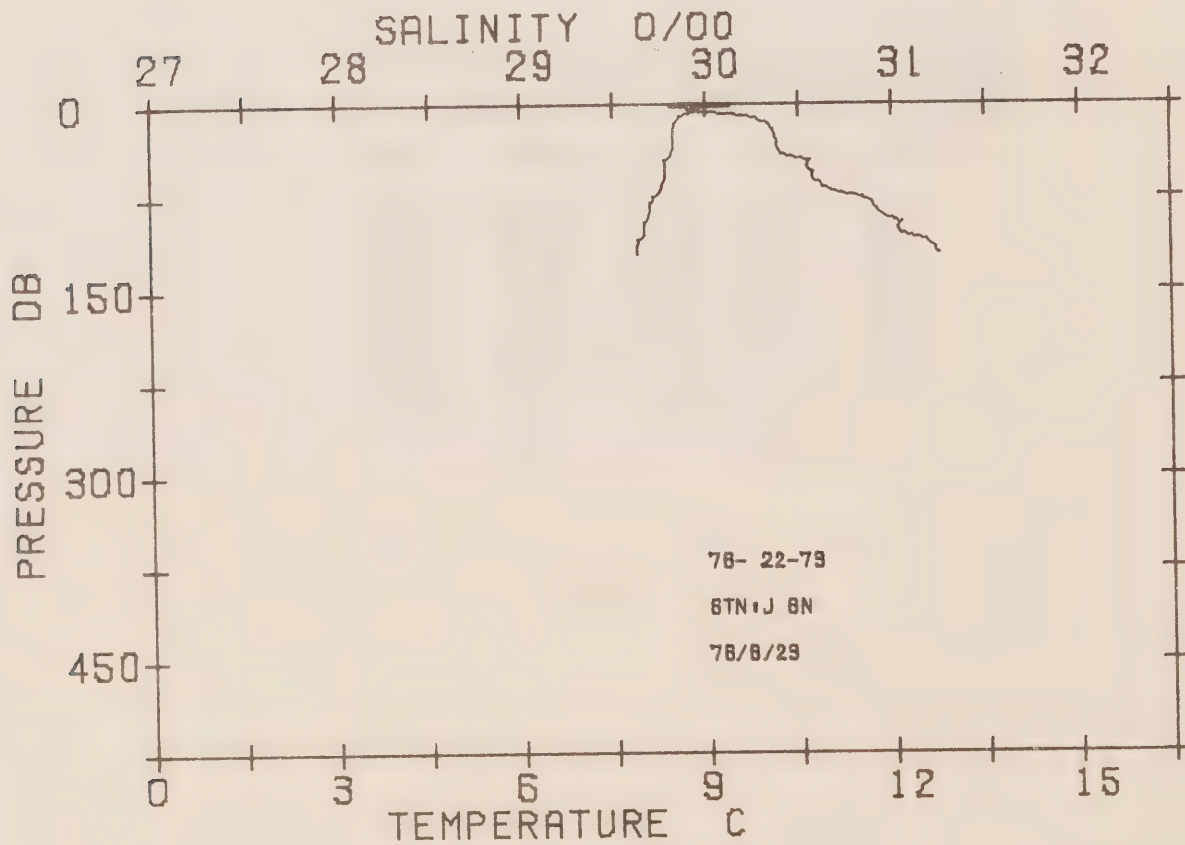
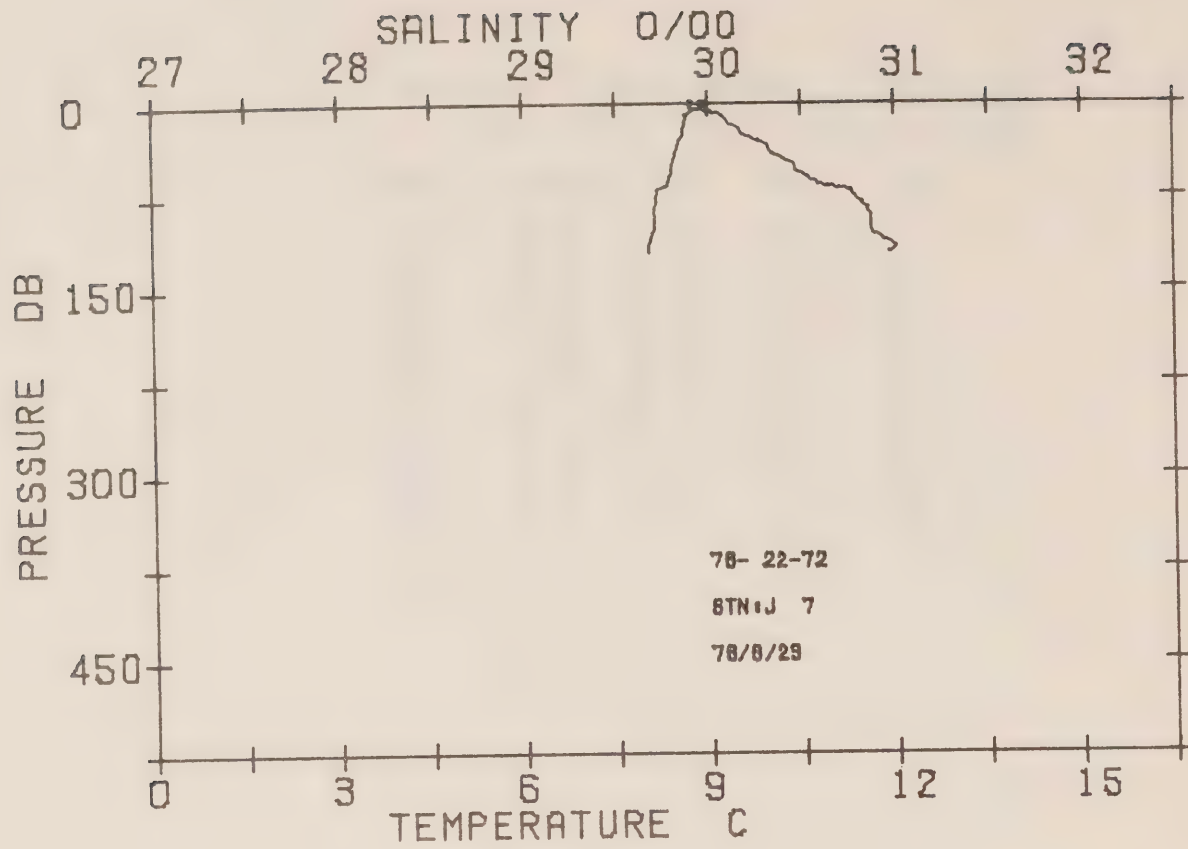


STATION J 8 CRUISE 76-22 CONS # 68
 POSITION 50-27.5N 126- 3.4W
 DATE 76/ 6/23 TIME 5: 5: 1 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.74	30.01	23.28	1479.
10	8.70	30.09	23.35	1479.
20	8.68	30.12	23.37	1480.
30	8.68	30.12	23.37	1480.
50	8.64	30.18	23.43	1480.
75	8.40	30.49	23.71	1480.
100	8.29	30.63	23.83	1480.
125	8.14	30.84	24.02	1480.
150	7.97	31.10	24.25	1480.
175	7.90	31.20	24.33	1480.
200	7.89	31.22	24.35	1481.
225	7.88	31.25	24.37	1481.
250	7.84	31.30	24.42	1482.

STATION J 8S CRUISE 76-22 CONS # 70
 POSITION 50-27.0N 126- 4.1W
 DATE 76/ 6/23 TIME 5:33:17 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.78	29.99	23.26	1479.
10	8.72	30.15	23.39	1480.
20	8.67	30.19	23.44	1480.
30	8.64	30.24	23.48	1480.
50	8.55	30.34	23.57	1480.
75	8.10	30.89	24.07	1479.
100	7.95	31.09	24.24	1479.
125	7.88	31.21	24.34	1480.
150	7.85	31.28	24.40	1480.

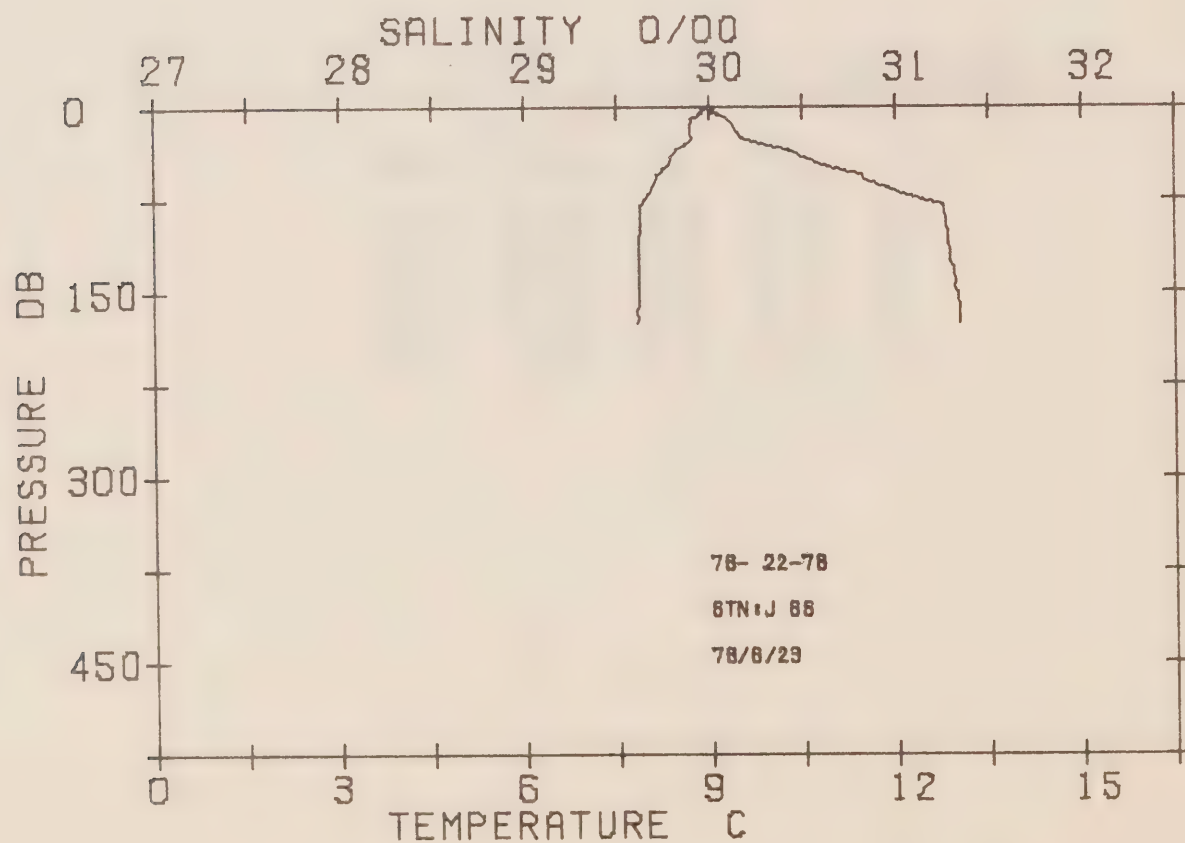
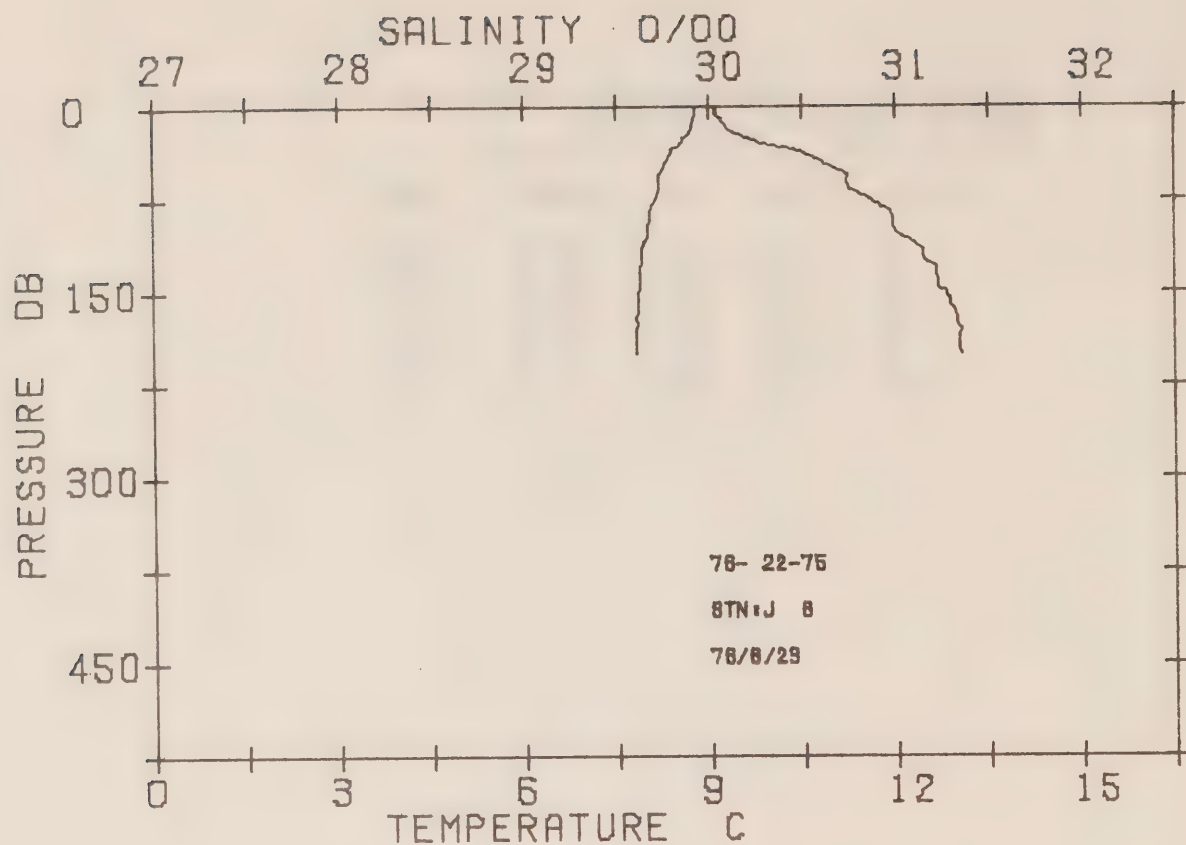


STATION J 7 CRUISE 76-22 CONS # 72
 POSITION 50-26.9N 126- 2.2W
 DATE 76/ 6/23 TIME 6: 3:14 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.73	29.98	23.26	1479.
10	8.66	30.08	23.35	1479.
20	8.59	30.18	23.43	1479.
30	8.52	30.27	23.52	1479.
50	8.40	30.47	23.69	1479.
75	8.17	30.79	23.98	1479.
100	8.11	30.87	24.05	1480.

STATION J 6N CRUISE 76-22 CONS # 73
 POSITION 50-26.8N 126- .0W
 DATE 76/ 6/23 TIME 14:30: 6 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.79	30.01	23.28	1479.
10	8.59	30.23	23.48	1479.
20	8.48	30.36	23.60	1479.
30	8.46	30.39	23.62	1479.
50	8.35	30.54	23.75	1479.
75	8.15	30.84	24.01	1479.
100	8.01	31.03	24.19	1479.

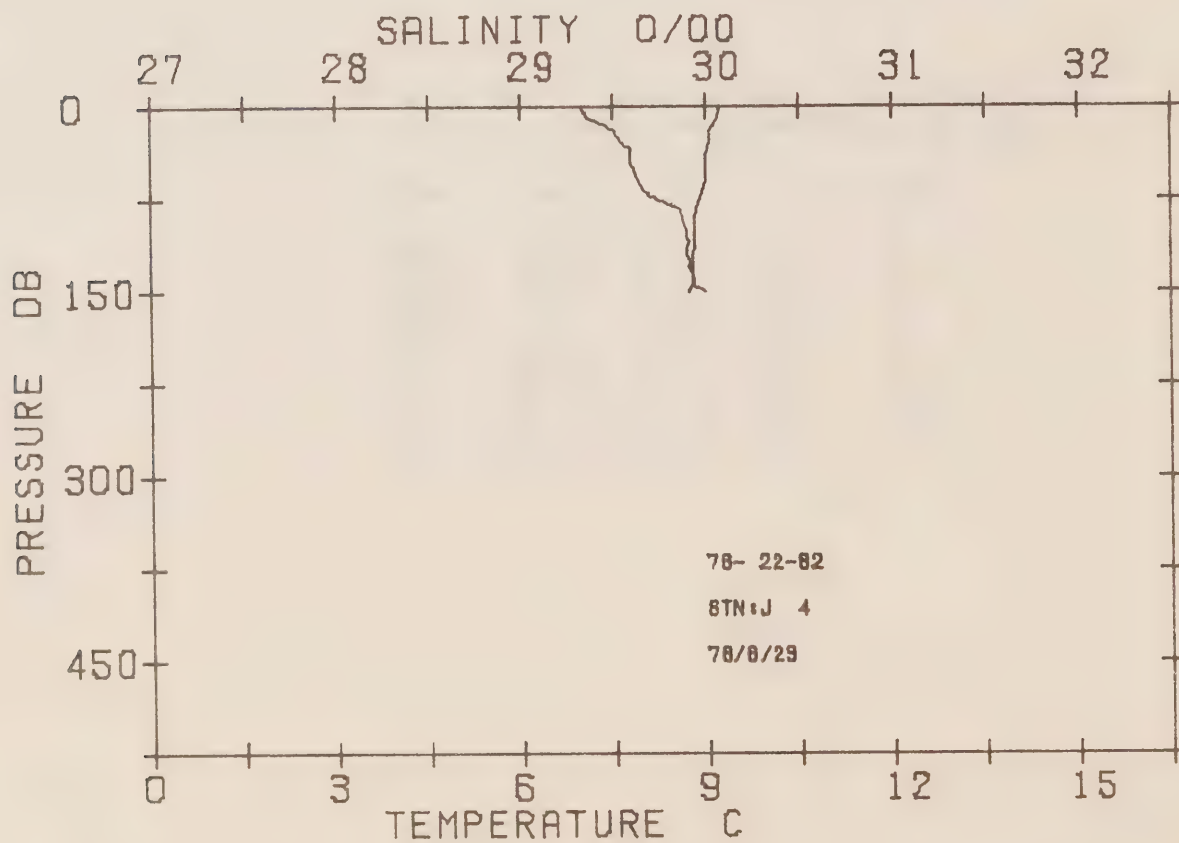
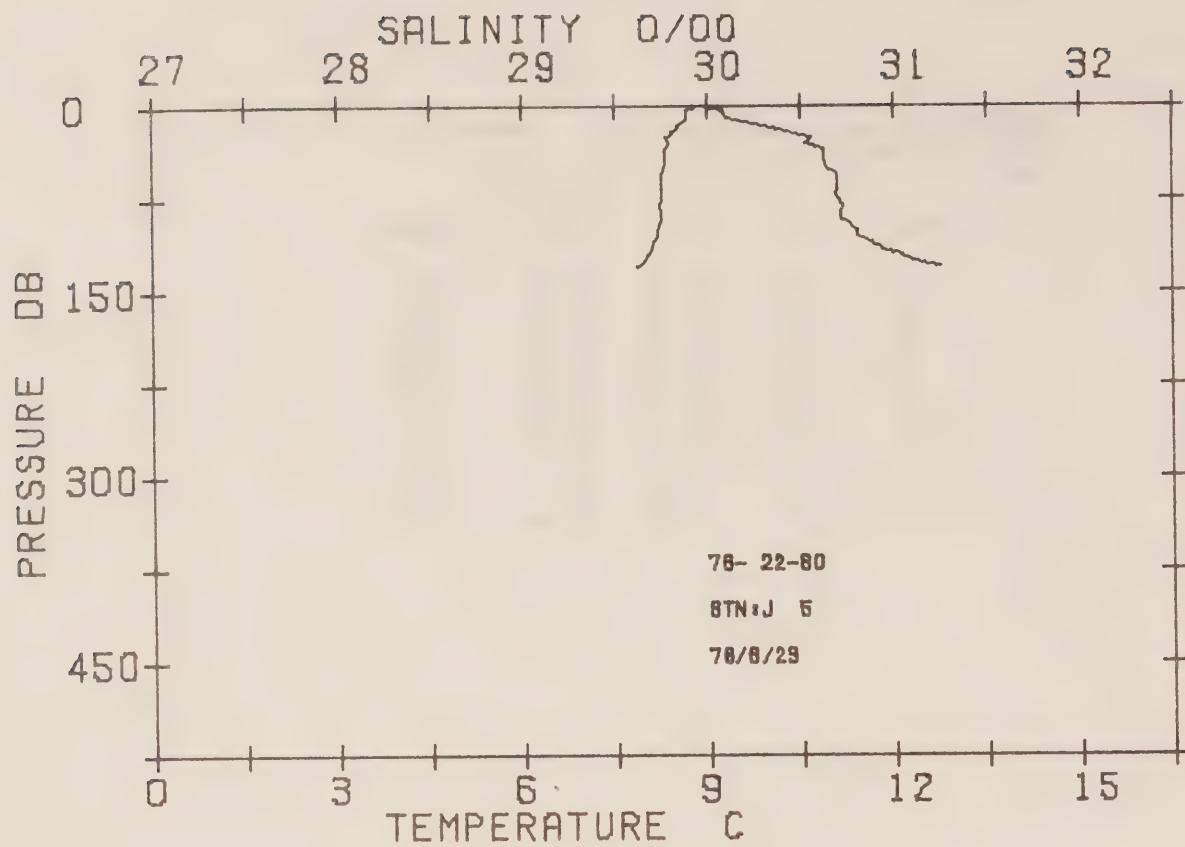


STATION J 6 CRUISE 76-22 CONS # 75
 POSITION 50-26.4N 126- .7W
 DATE 76/ 6/23 TIME 14:55:23 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.79	29.99	23.26	1479.
10	8.74	30.06	23.32	1480.
20	8.68	30.12	23.38	1480.
30	8.54	30.29	23.53	1479.
50	8.25	30.68	23.87	1479.
75	8.11	30.87	24.05	1479.
100	8.01	31.00	24.16	1479.
125	7.91	31.17	24.31	1480.
150	7.85	31.27	24.40	1480.
175	7.83	31.33	24.44	1480.
200	7.82	31.35	24.46	1481.

STATION J 6S CRUISE 76-22 CONS # 78
 POSITION 50-26.0N 126- 1.2W
 DATE 76/ 6/23 TIME 15:42:10 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.91	30.01	23.26	1480.
10	8.71	30.10	23.35	1479.
20	8.69	30.16	23.40	1480.
30	8.64	30.28	23.51	1480.
50	8.26	30.68	23.88	1479.
75	7.93	31.15	24.29	1479.
100	7.86	31.28	24.40	1479.
125	7.85	31.29	24.41	1480.
150	7.83	31.33	24.45	1480.
175	7.82	31.34	24.46	1480.

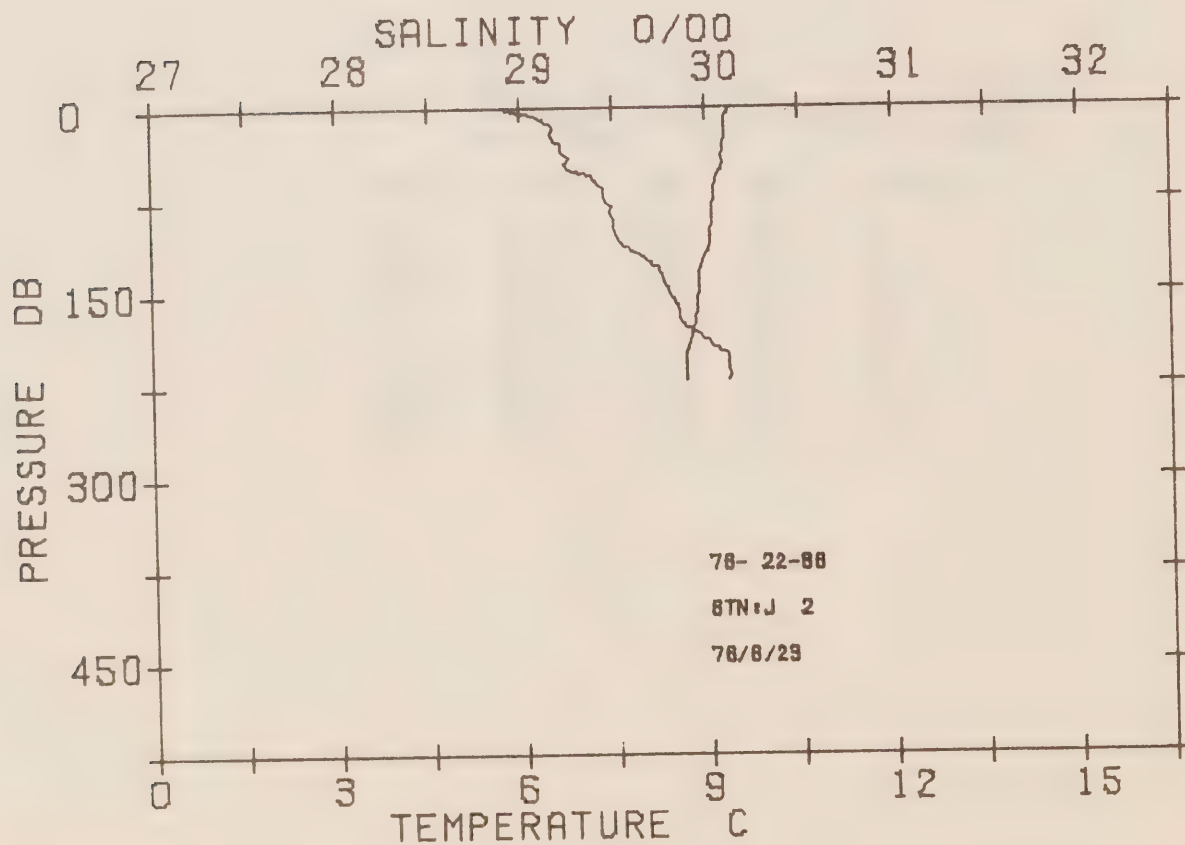
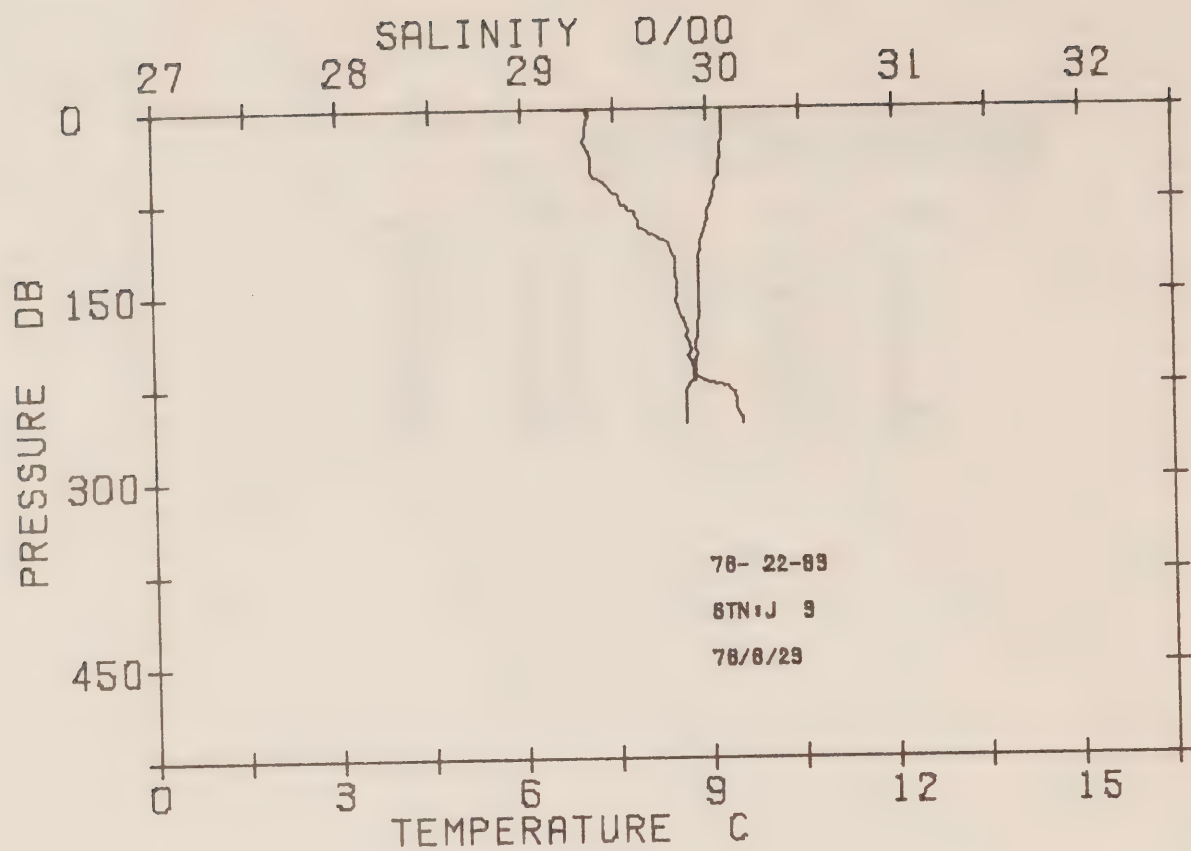


STATION J 5 CRUISE 76-22 CONS # 80
 POSITION 50-24.5N 125-56.8W
 DATE 76/ 6/23 TIME 17:13: 6 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.79	29.99	23.26	1479.
10	8.65	30.10	23.37	1479.
20	8.44	30.43	23.65	1479.
30	8.37	30.53	23.74	1479.
50	8.29	30.65	23.85	1479.
75	8.25	30.71	23.90	1480.
100	8.19	30.80	23.98	1480.
125	7.97	31.11	24.25	1480.

STATION J 4 CRUISE 76-22 CONS # 82
 POSITION 50-22.7N 125-47.0W
 DATE 76/ 6/23 TIME 18:34:17 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	9.24	29.33	22.68	1480.
10	9.20	29.36	22.71	1480.
20	9.07	29.51	22.85	1480.
30	9.05	29.55	22.88	1480.
50	9.01	29.61	22.93	1481.
75	8.92	29.73	23.04	1481.
100	8.80	29.90	23.19	1481.
125	8.79	29.92	23.20	1481.
150	8.73	30.00	23.27	1482.

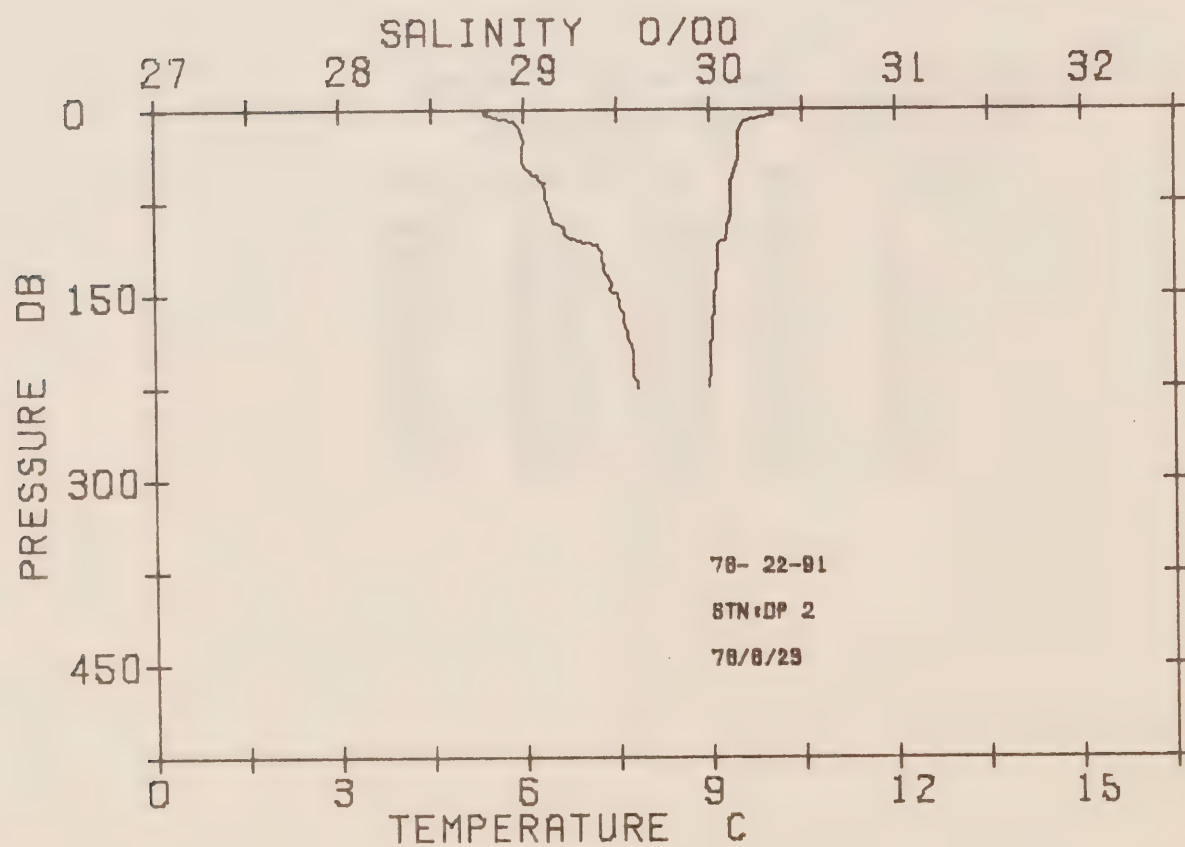
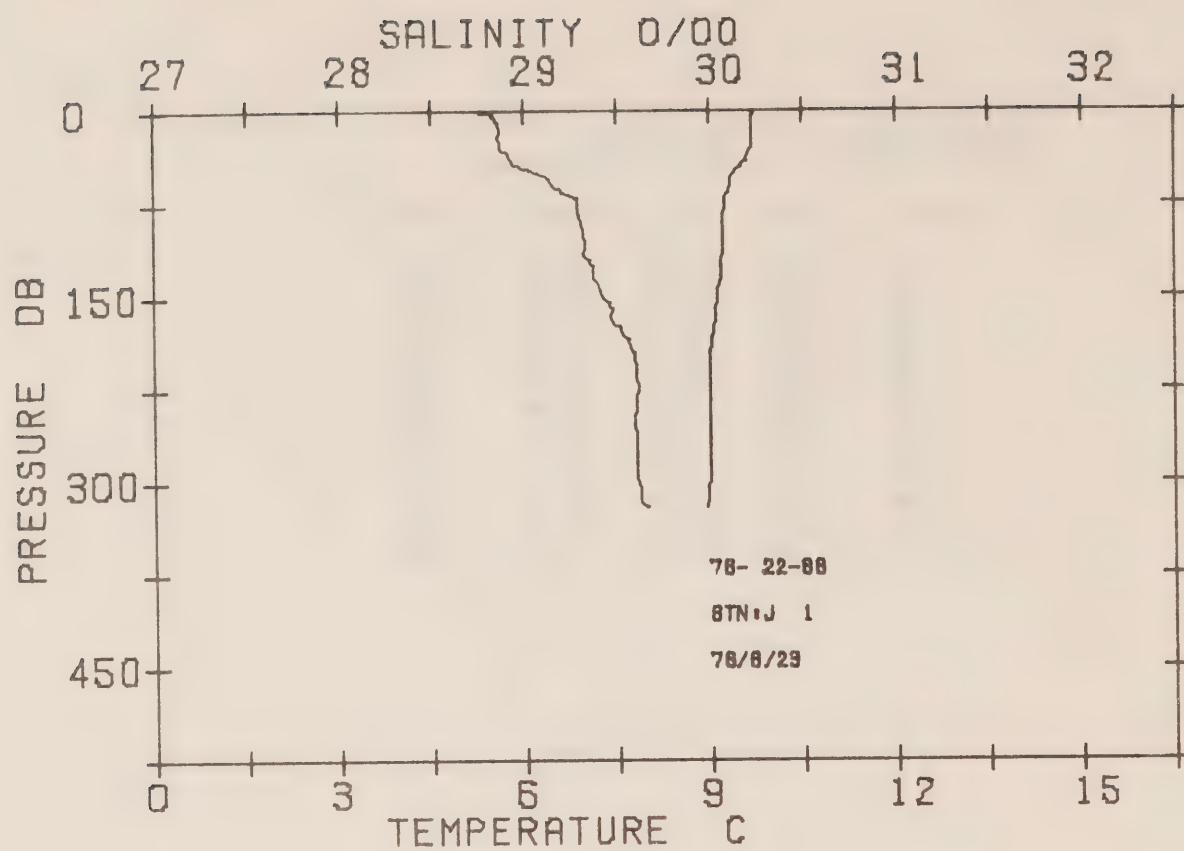


STATION J 3 CRUISE 76-22 CONS # 83
 POSITION 50-22.2N 125-39.0W
 DATE 76/ 6/23 TIME 19:50:39 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.25	29.27	22.63	1480.
10	9.25	29.35	22.69	1481.
20	9.25	29.34	22.68	1481.
30	9.23	29.34	22.69	1481.
50	9.20	29.38	22.72	1481.
75	9.06	29.53	22.86	1481.
100	8.95	29.68	22.99	1481.
125	8.85	29.82	23.12	1482.
150	8.85	29.83	23.13	1482.
175	8.82	29.87	23.17	1482.
200	8.80	29.89	23.18	1483.
225	8.66	30.10	23.37	1483.
250	8.61	30.18	23.43	1483.

STATION J 2 CRUISE 76-22 CONS # 86
 POSITION 50-22.2N 125-33.5W
 DATE 76/ 6/23 TIME 21:11:50 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.39	28.93	22.35	1480.
10	9.30	29.13	22.52	1480.
20	9.31	29.17	22.55	1481.
30	9.28	29.22	22.59	1481.
50	9.26	29.26	22.62	1481.
75	9.11	29.46	22.80	1481.
100	9.07	29.51	22.85	1482.
125	8.94	29.70	23.01	1482.
150	8.86	29.80	23.10	1482.
175	8.82	29.87	23.16	1482.
200	8.66	30.11	23.37	1482.

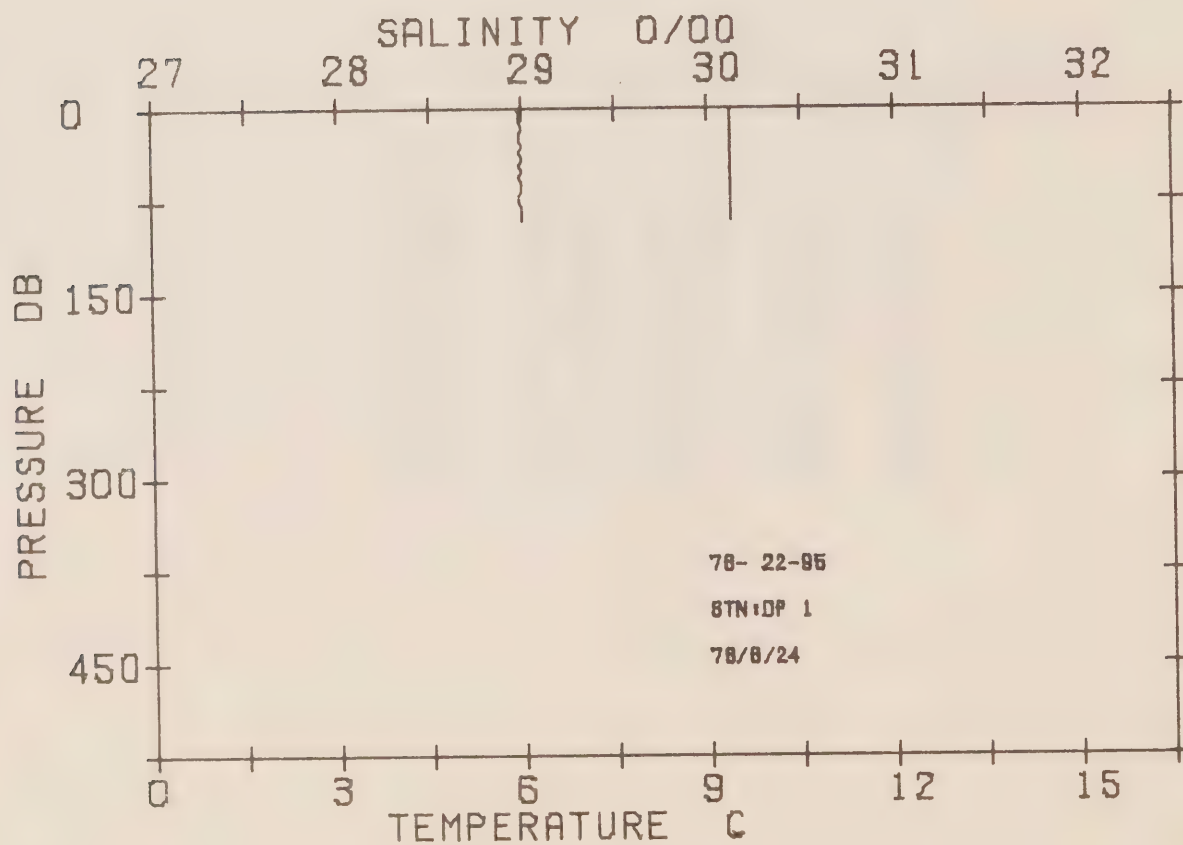
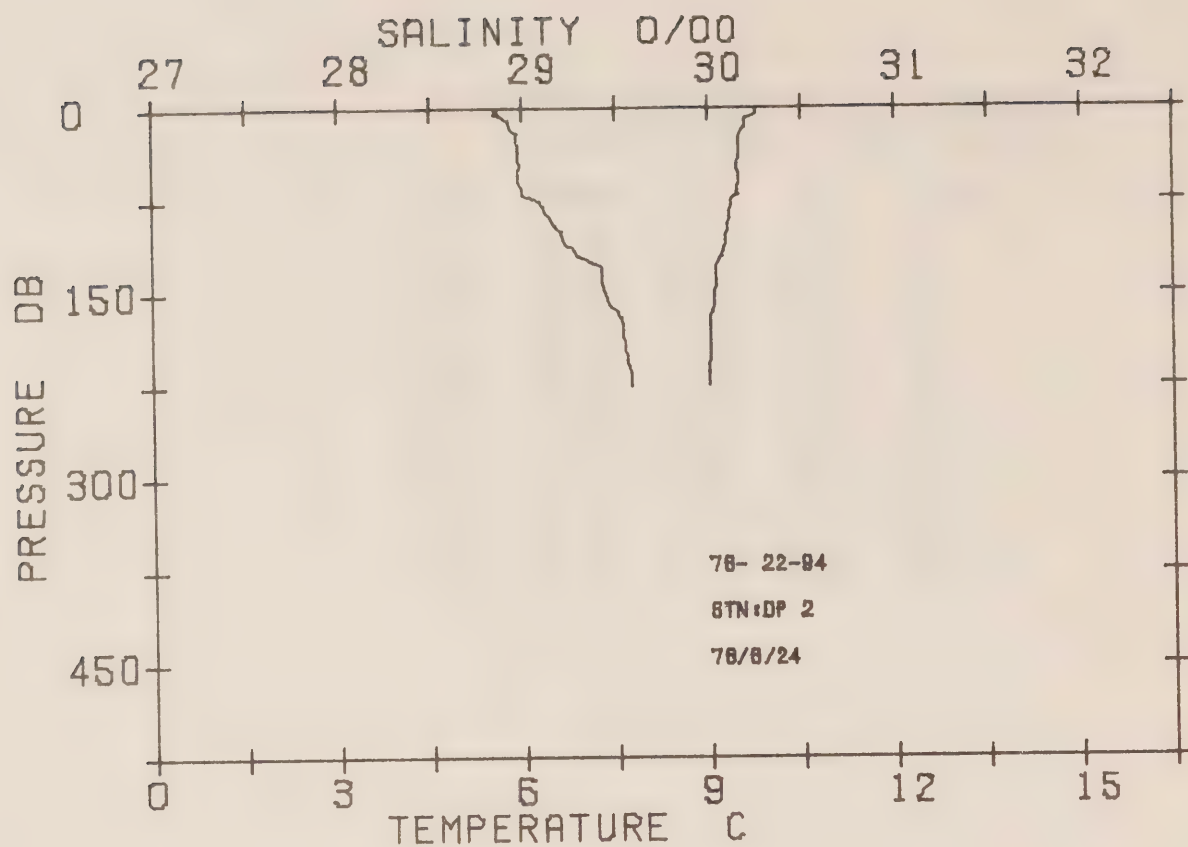


STATION J 1 CRUISE 76-22 CONS # 88
 POSITION 50-20.7N 125-25.5W
 DATE 76/ 6/23 TIME 22:17:50 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.70	28.77	22.18	1481.
10	9.70	28.86	22.24	1482.
20	9.70	28.86	22.24	1482.
30	9.69	28.88	22.26	1482.
50	9.40	29.07	22.45	1481.
75	9.24	29.29	22.65	1481.
100	9.22	29.32	22.67	1482.
125	9.18	29.37	22.71	1482.
150	9.13	29.43	22.77	1482.
175	9.06	29.52	22.85	1483.
200	9.00	29.59	22.92	1483.
225	8.99	29.61	22.93	1483.
250	9.00	29.59	22.92	1484.
275	8.99	29.60	22.92	1484.
300	8.99	29.61	22.93	1485.

STATION DP 2 CRUISE 76-22 CONS # 91
 POSITION 50-14.7N 125-23.0W
 DATE 76/ 6/23 TIME 23:56:45 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.00	28.80	22.15	1482.
10	9.57	28.95	22.33	1481.
20	9.48	28.99	22.38	1481.
30	9.47	28.99	22.38	1481.
50	9.41	29.03	22.41	1481.
75	9.34	29.13	22.51	1482.
100	9.27	29.22	22.59	1482.
125	9.12	29.43	22.77	1482.
150	9.07	29.50	22.84	1482.
175	9.04	29.54	22.87	1483.
200	9.00	29.58	22.91	1483.
225	8.98	29.60	22.93	1483.

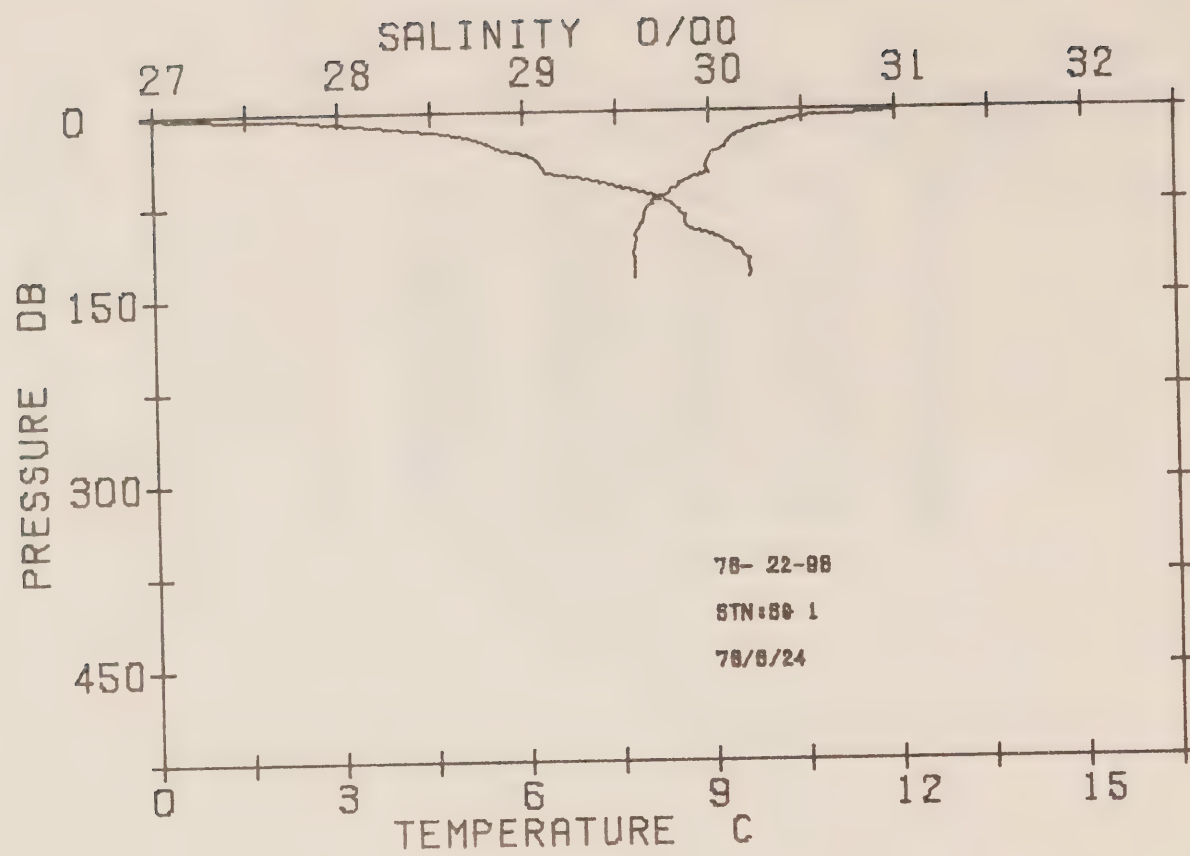


STATION DP 2 CRUISE 76-22 CONS # 94
 POSITION 50-14.7N 125-23.0W
 DATE 76/ 6/24 TIME 0:59:54 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.77	28.86	22.23	1482.
10	9.58	28.93	22.32	1481.
20	9.53	28.97	22.35	1481.
30	9.51	28.98	22.36	1481.
50	9.48	28.98	22.37	1482.
75	9.38	29.09	22.47	1482.
100	9.30	29.21	22.58	1482.
125	9.17	29.37	22.72	1482.
150	9.10	29.45	22.79	1482.
175	9.04	29.54	22.87	1483.
200	9.02	29.56	22.89	1483.
225	9.00	29.58	22.91	1483.

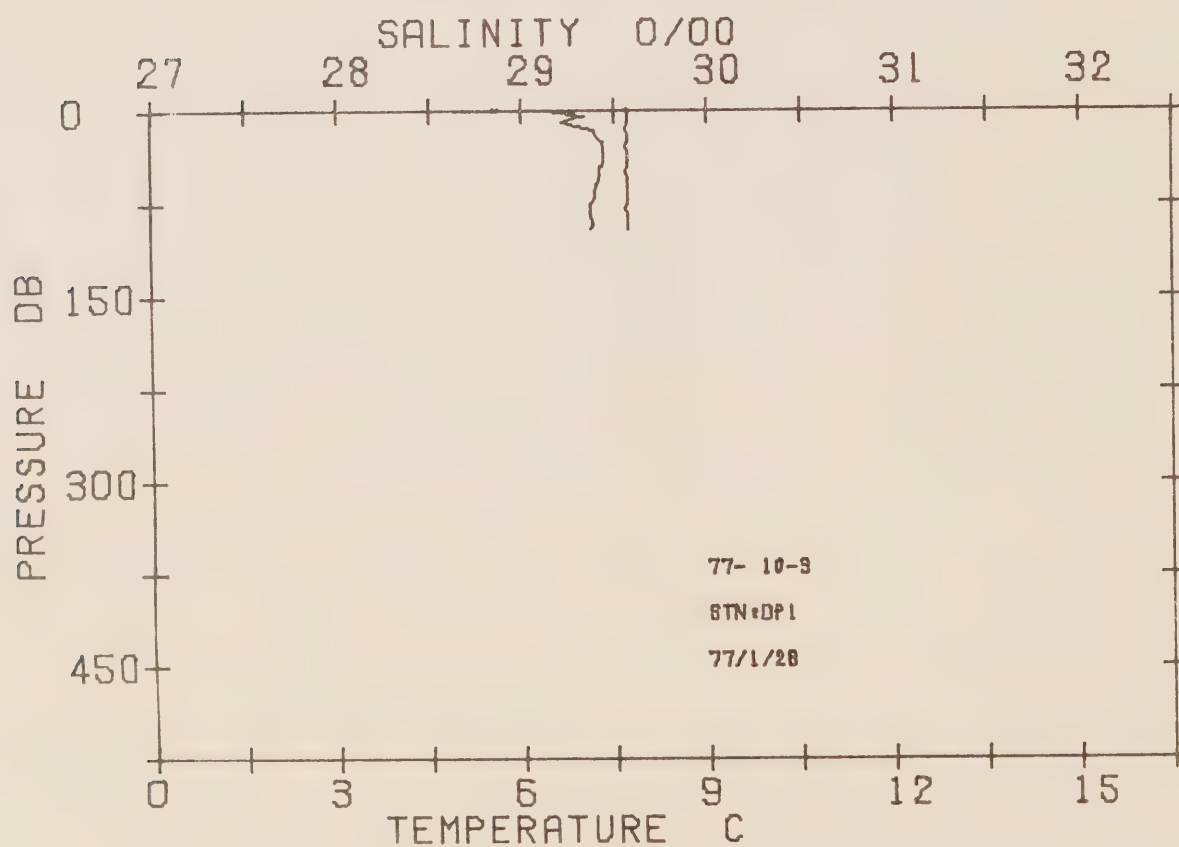
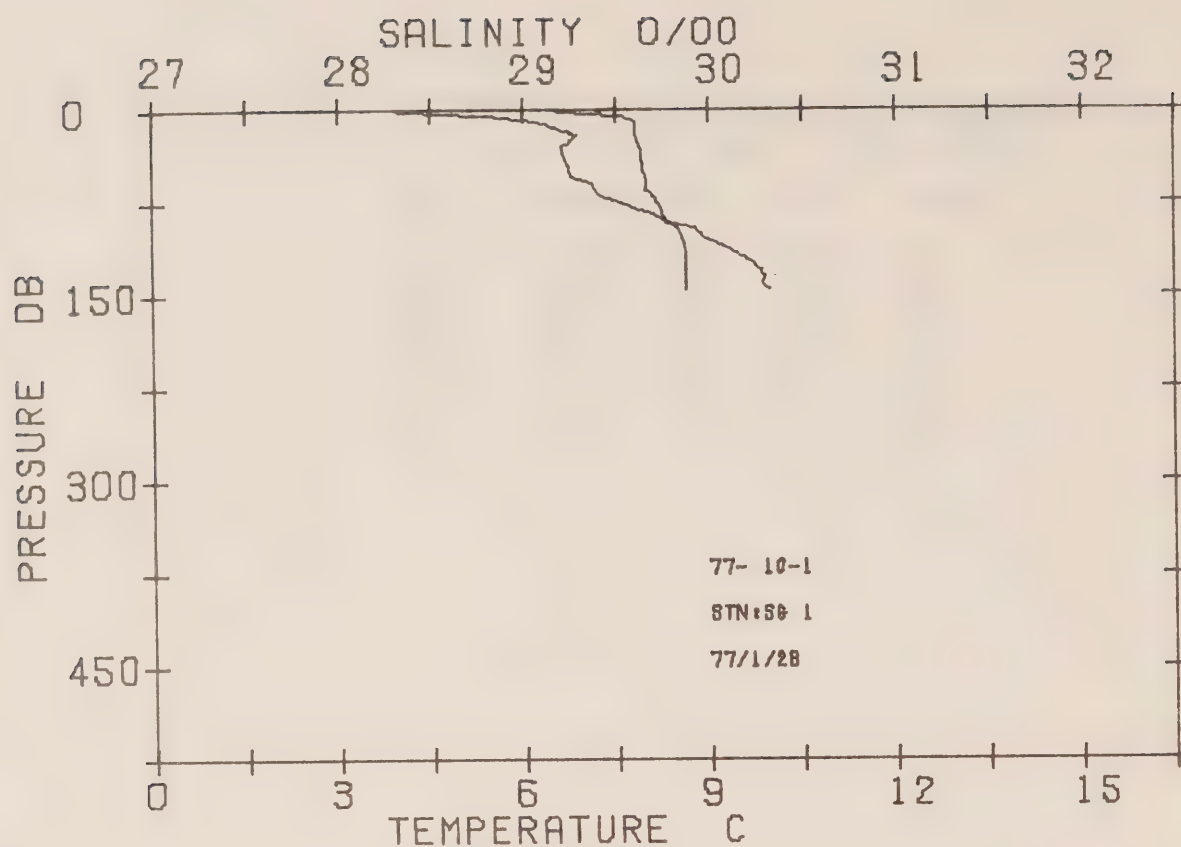
STATION DP 1 CRUISE 76-22 CONS # 95
 POSITION 50- 5.1N 125-16.4W
 DATE 76/ 6/24 TIME 2:19:55 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.39	28.99	22.39	1480.
10	9.38	28.99	22.40	1481.
20	9.37	28.99	22.39	1481.
30	9.37	29.00	22.40	1481.
50	9.38	29.00	22.40	1481.
75	9.39	28.99	22.39	1482.



STATION SG 1 CRUISE 76-22 CONS # 98
POSITION 49-55.0N 125- 5.5W
DATE 76/ 6/24 TIME 4:14:41 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	11.93	26.99	20.43	1487.
10	10.18	28.09	21.57	1482.
20	9.41	28.71	22.17	1481.
30	9.24	28.85	22.31	1480.
50	8.96	29.12	22.56	1480.
75	8.07	29.80	23.21	1478.
100	7.78	30.02	23.43	1477.
125	7.77	30.21	23.57	1478.

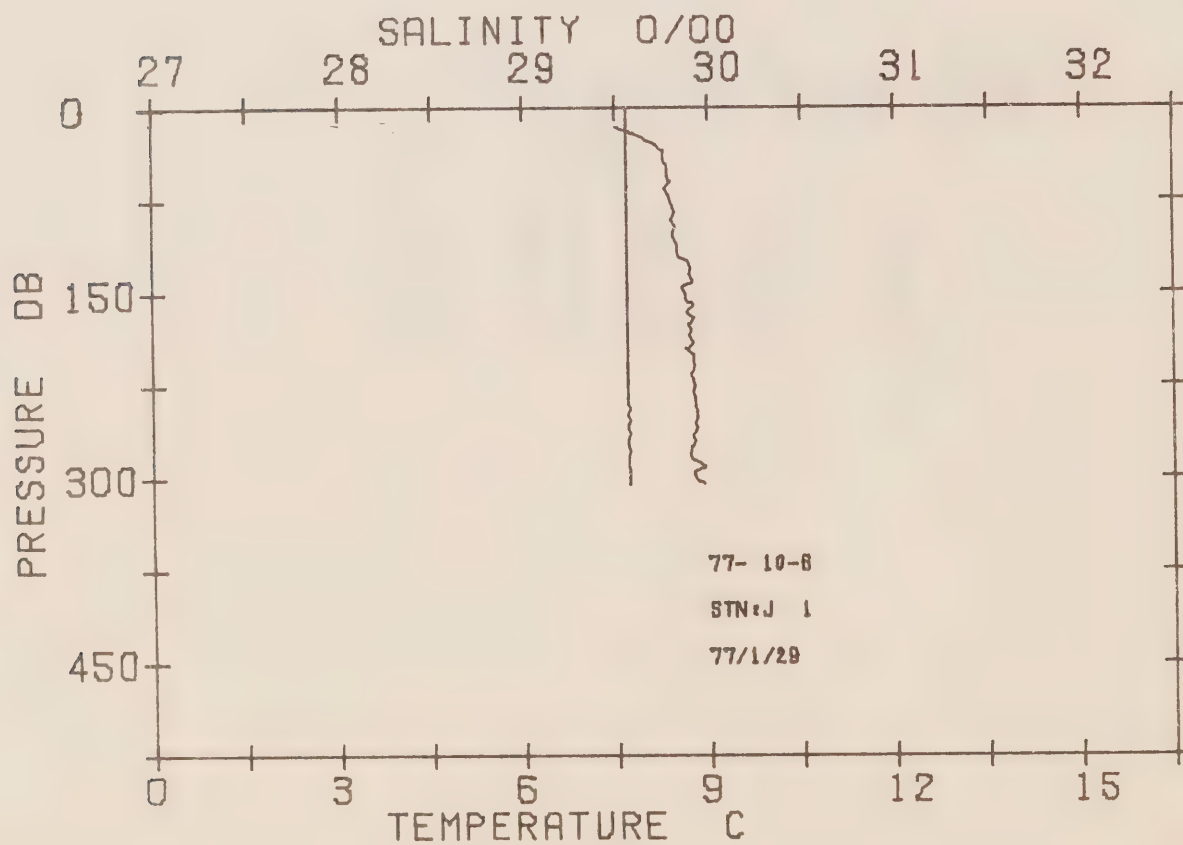
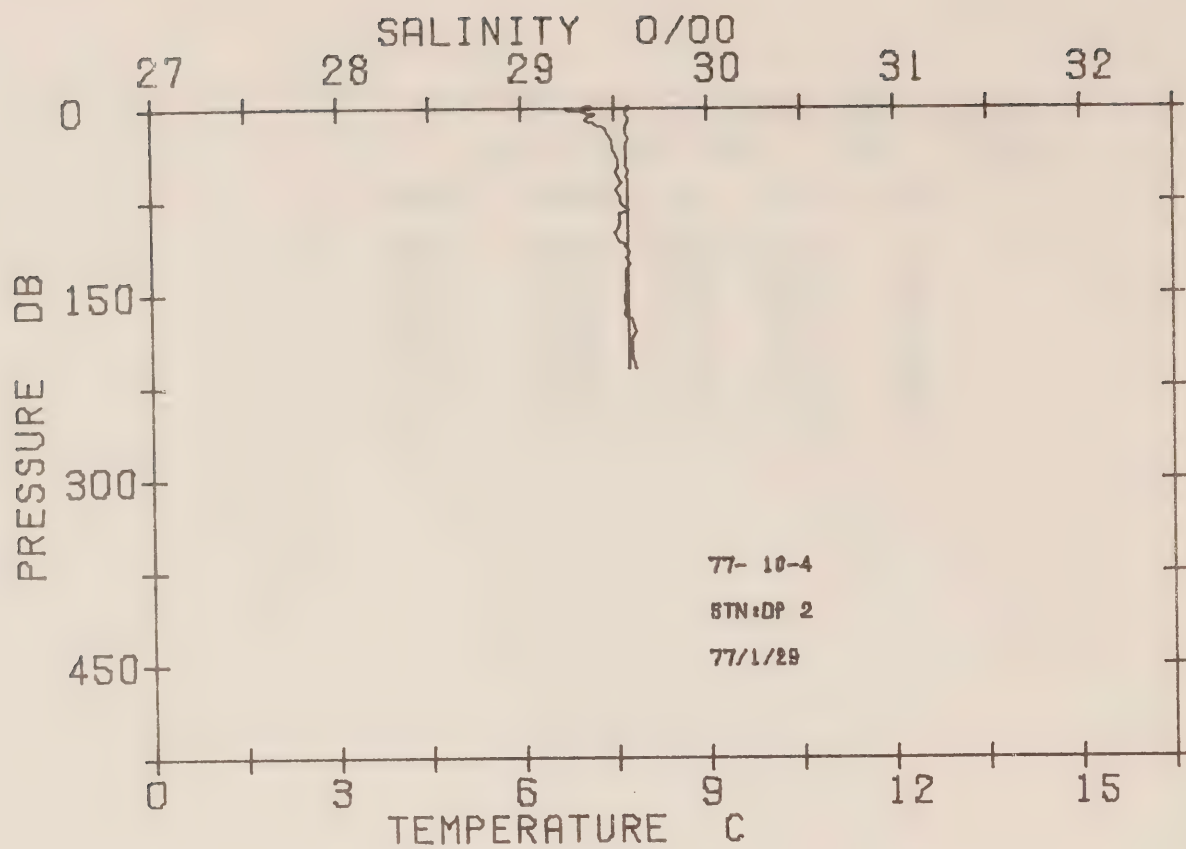


STATION SG 1 CRUISE 77-10 CONS # 1
 POSITION 49-55.0N 125- 5.5W
 DATE 77/ 1/28 TIME 21:21: 1 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	6.54	28.34	22.27	1468.
10	7.82	29.08	22.69	1475.
20	7.81	29.29	22.85	1475.
30	7.88	29.22	22.78	1475.
50	7.95	29.25	22.80	1476.
75	8.16	29.53	22.99	1478.
100	8.53	29.96	23.28	1480.
125	8.61	30.25	23.49	1481.

STATION DP1 CRUISE 77-10 CONS # 3
 POSITION 50- 5.1N 125-16.4W
 DATE 77/ 1/28 TIME 23:12:42 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.71	29.01	22.64	1474.
10	7.71	29.22	22.81	1474.
20	7.71	29.41	22.96	1475.
30	7.69	29.45	22.99	1475.
50	7.70	29.43	22.98	1475.
75	7.71	29.38	22.94	1476.

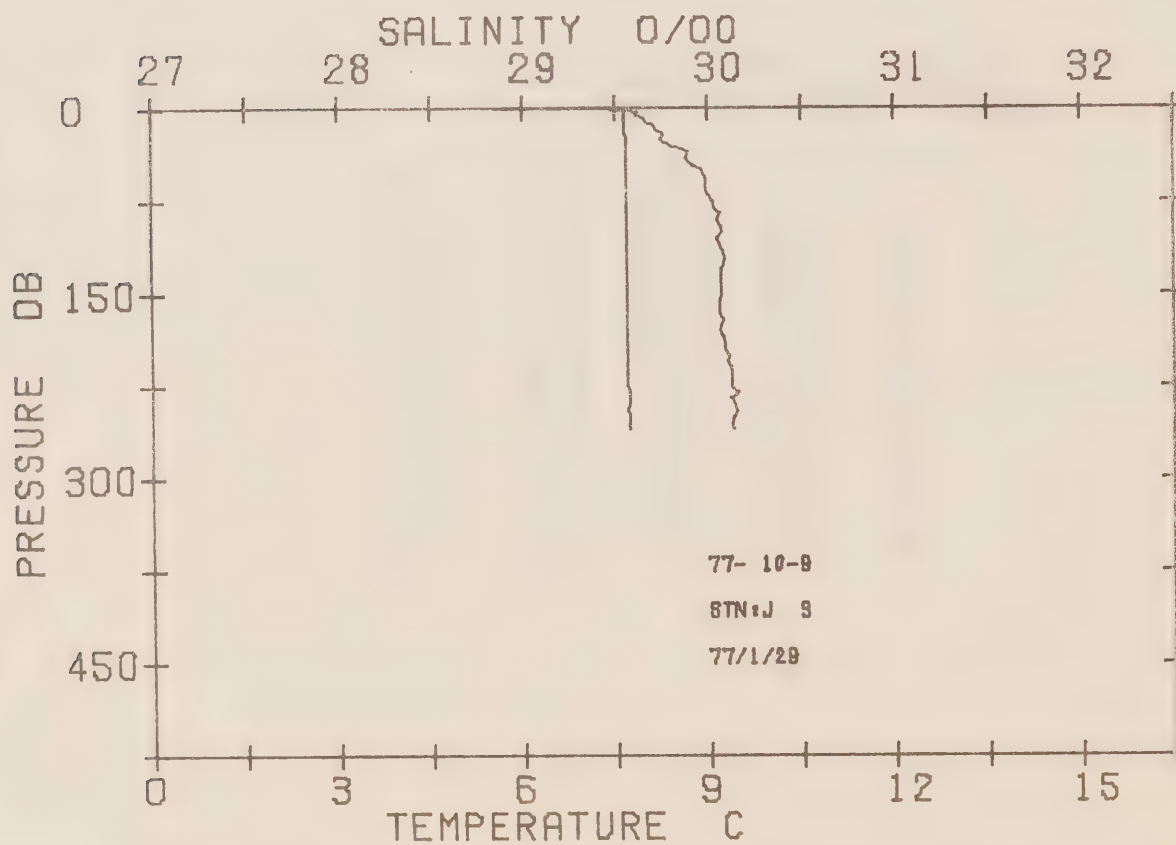
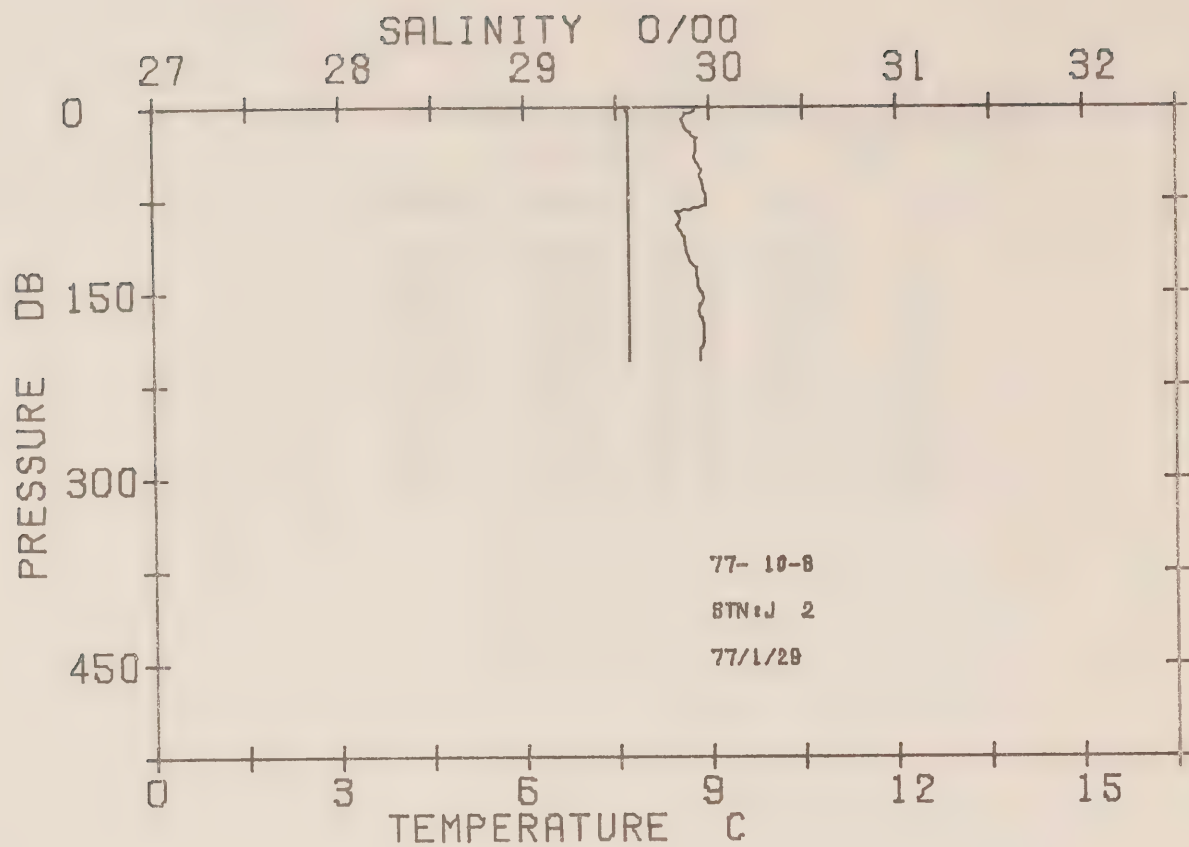


STATION DP 2 CRUISE 77-10 CONS # 4
 POSITION 50-14.7N 125-23.0W
 DATE 77/ 1/29 TIME 0:21:59 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.72	29.34	22.90	1475.
10	7.71	29.34	22.91	1475.
20	7.70	29.47	23.01	1475.
30	7.70	29.49	23.02	1475.
50	7.71	29.51	23.04	1475.
75	7.72	29.53	23.05	1476.
100	7.72	29.50	23.03	1476.
125	7.71	29.58	23.09	1477.
150	7.71	29.55	23.07	1477.
175	7.71	29.60	23.11	1478.
200	7.71	29.59	23.10	1478.

STATION J 1 CRUISE 77-10 CONS # 6
 POSITION 50-20.7N 125-25.5W
 DATE 77/ 1/29 TIME 1:41:15 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.69	22.74	17.75	1466.
10	7.69	15.27	11.91	1457.
20	7.69	29.60	23.11	1475.
30	7.70	29.73	23.21	1475.
50	7.70	29.78	23.25	1476.
75	7.70	29.80	23.26	1476.
100	7.70	29.81	23.27	1477.
125	7.70	29.90	23.35	1477.
150	7.70	29.88	23.33	1478.
175	7.70	29.90	23.35	1478.
200	7.70	29.92	23.36	1478.
225	7.70	29.93	23.36	1479.
250	7.70	29.94	23.37	1479.
275	7.70	29.91	23.35	1480.
300	7.71	29.93	23.36	1480.

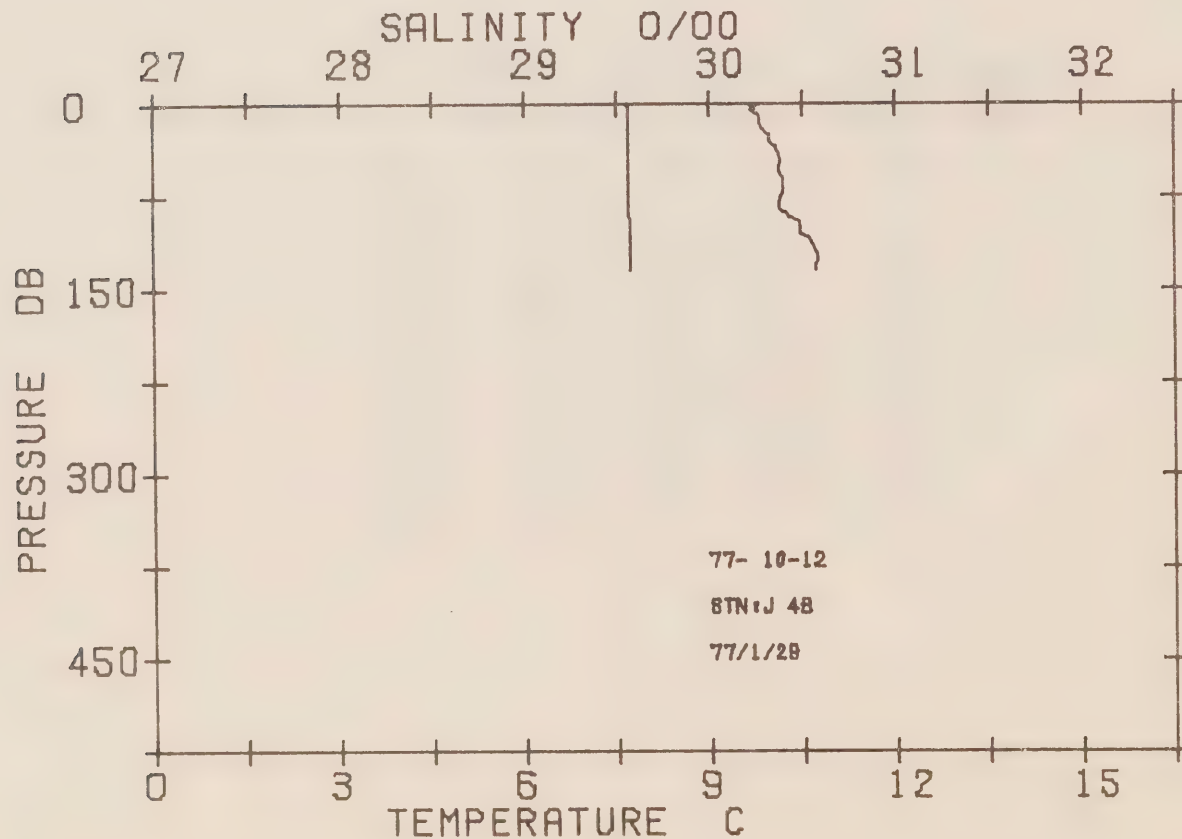
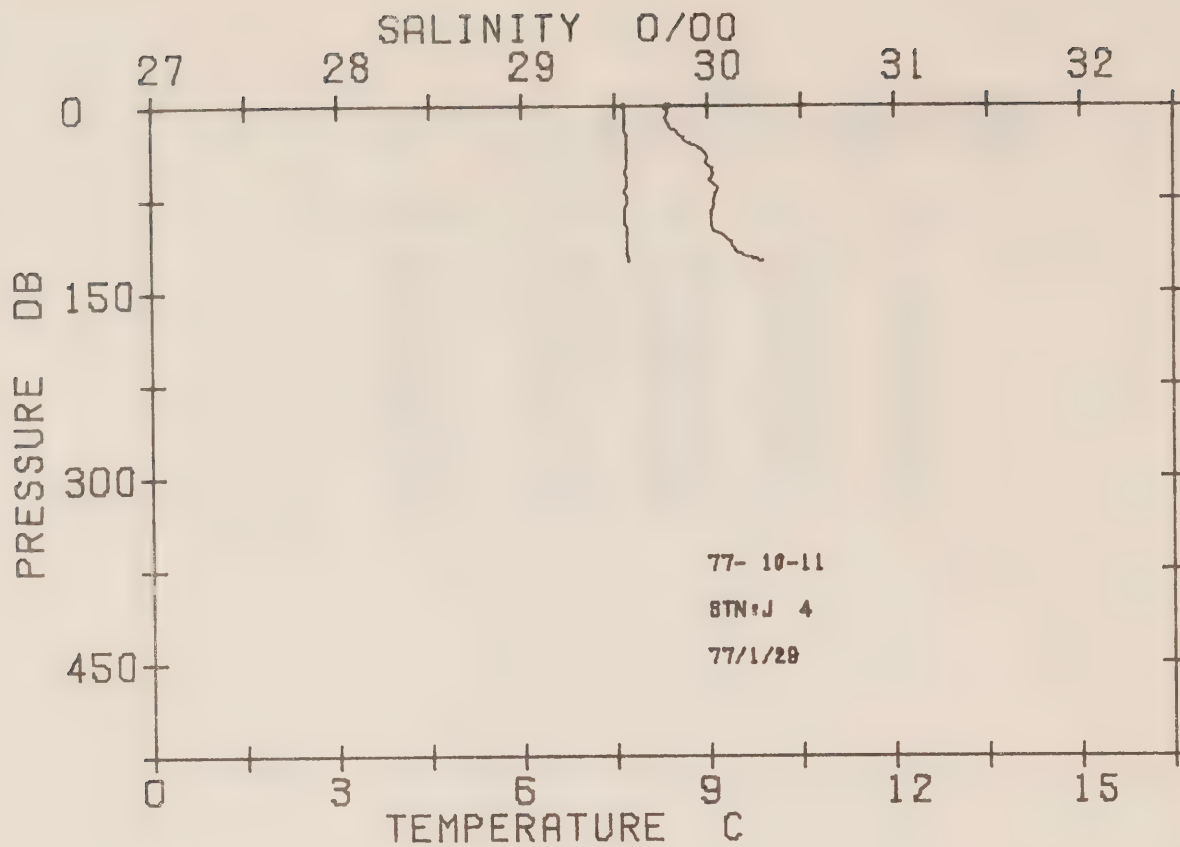


STATION J 2 CRUISE 77-10 CONS # 8
 POSITION 50-22.2N 125-33.5W
 DATE 77/ 1/29 TIME 3:29:30 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.68	29.92	23.37	1475.
10	7.69	29.85	23.30	1475.
20	7.68	29.90	23.35	1475.
30	7.69	29.93	23.37	1476.
50	7.69	29.96	23.39	1476.
75	7.69	29.98	23.41	1476.
100	7.69	29.84	23.30	1477.
125	7.69	29.90	23.35	1477.
150	7.70	29.96	23.39	1478.
175	7.70	29.97	23.40	1478.
200	7.70	29.95	23.38	1478.

STATION J 3 CRUISE 77-10 CONS # 9
 POSITION 50-22.2N 125-39.0W
 DATE 77/ 1/29 TIME 4: 7: 0 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.65	29.49	23.03	1474.
10	7.66	29.67	23.17	1475.
20	7.67	29.76	23.24	1475.
30	7.69	29.79	23.26	1475.
50	7.68	29.97	23.40	1476.
75	7.68	30.03	23.45	1476.
100	7.69	30.07	23.48	1477.
125	7.69	30.08	23.49	1477.
150	7.69	30.07	23.48	1478.
175	7.70	30.07	23.48	1478.
200	7.70	30.11	23.50	1479.
225	7.70	30.12	23.52	1479.
250	7.71	30.14	23.53	1480.

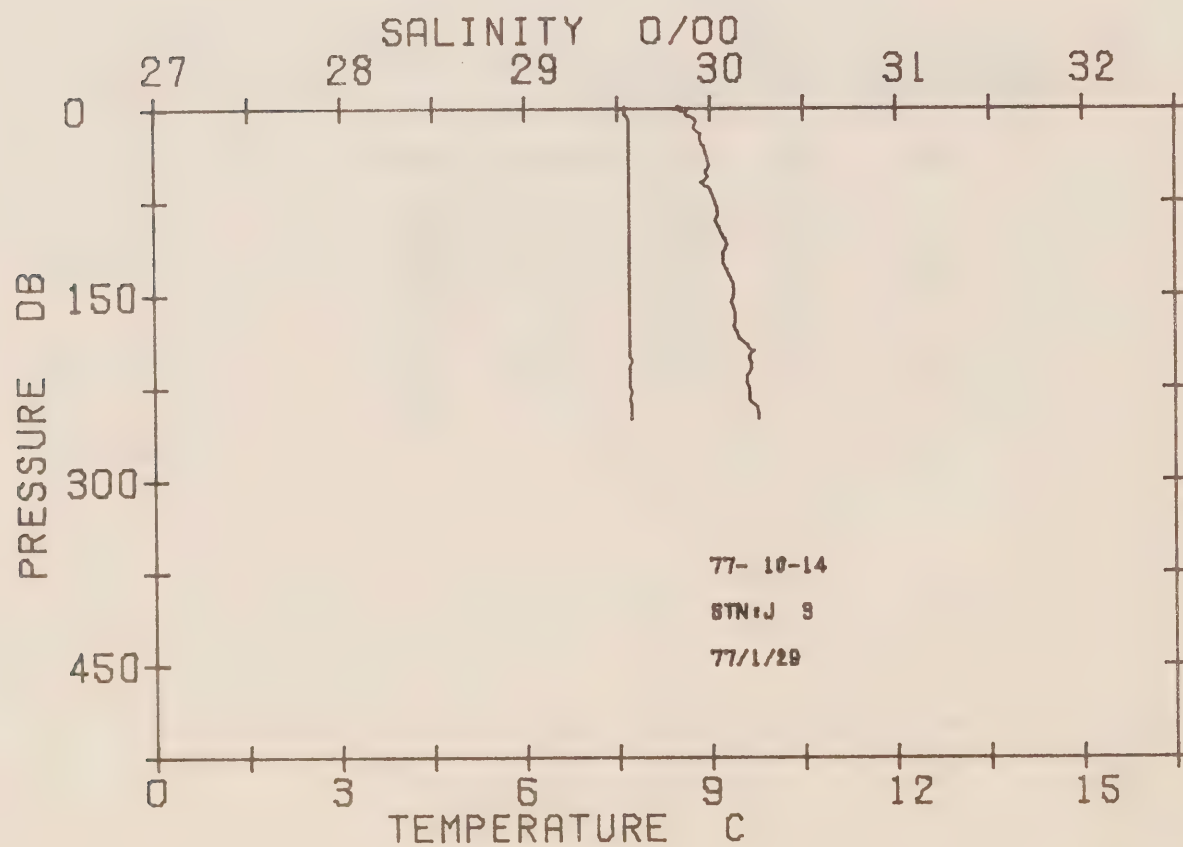
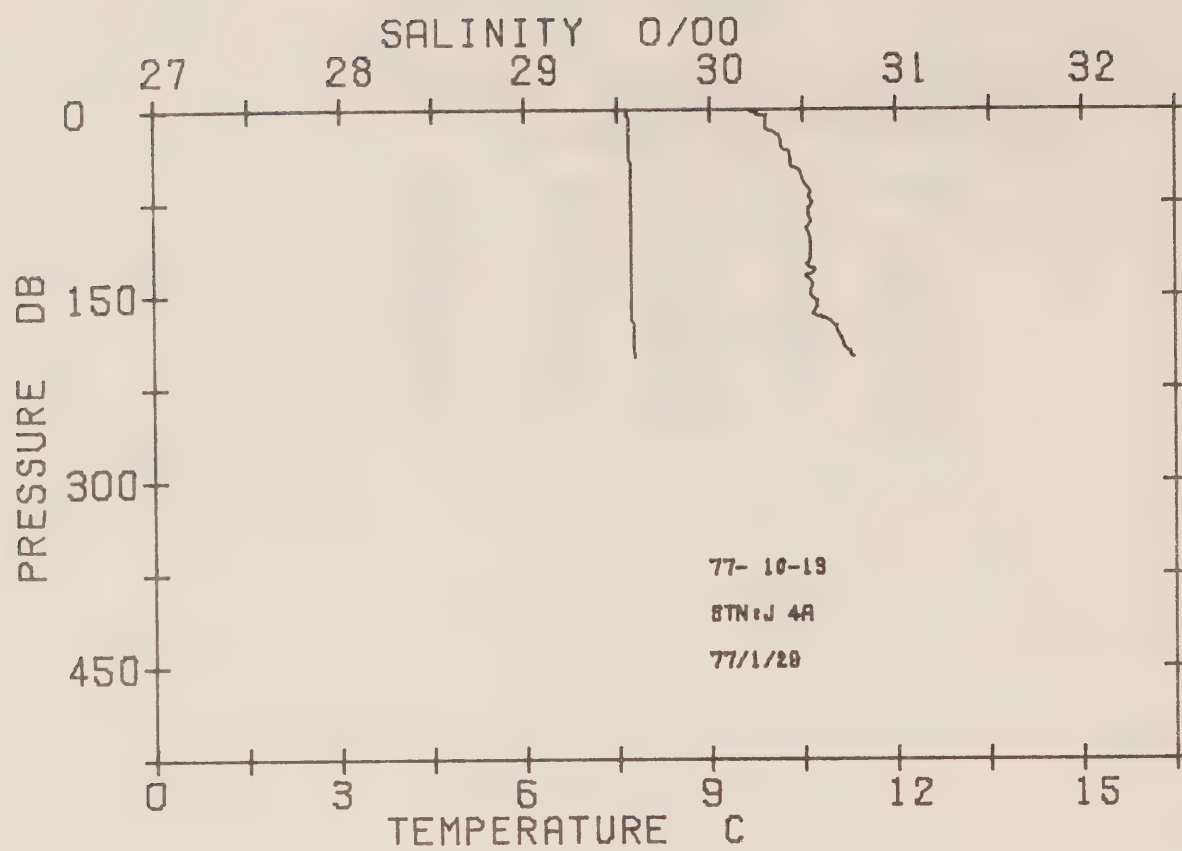


STATION J 4 CRUISE 77-10 CONS # 11
 POSITION 50-22.7N 125-47.0W
 DATE 77/ 1/29 TIME 5:34:56 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.63	29.77	23.25	1475.
10	7.66	29.77	23.25	1475.
20	7.67	29.83	23.29	1475.
30	7.68	29.90	23.34	1476.
50	7.68	30.02	23.44	1476.
75	7.68	30.03	23.45	1476.
100	7.68	30.03	23.45	1477.
125	7.71	30.29	23.65	1478.

STATION J 4B CRUISE 77-10 CONS # 12
 POSITION 50-24.7N 125-52.6W
 DATE 77/ 1/29 TIME 6:14: 5 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.68	30.23	23.60	1475.
10	7.69	30.27	23.64	1476.
20	7.69	30.29	23.65	1476.
30	7.69	30.32	23.67	1476.
50	7.70	30.37	23.71	1477.
75	7.69	30.39	23.73	1477.
100	7.71	30.49	23.81	1478.
125	7.72	30.58	23.87	1478.

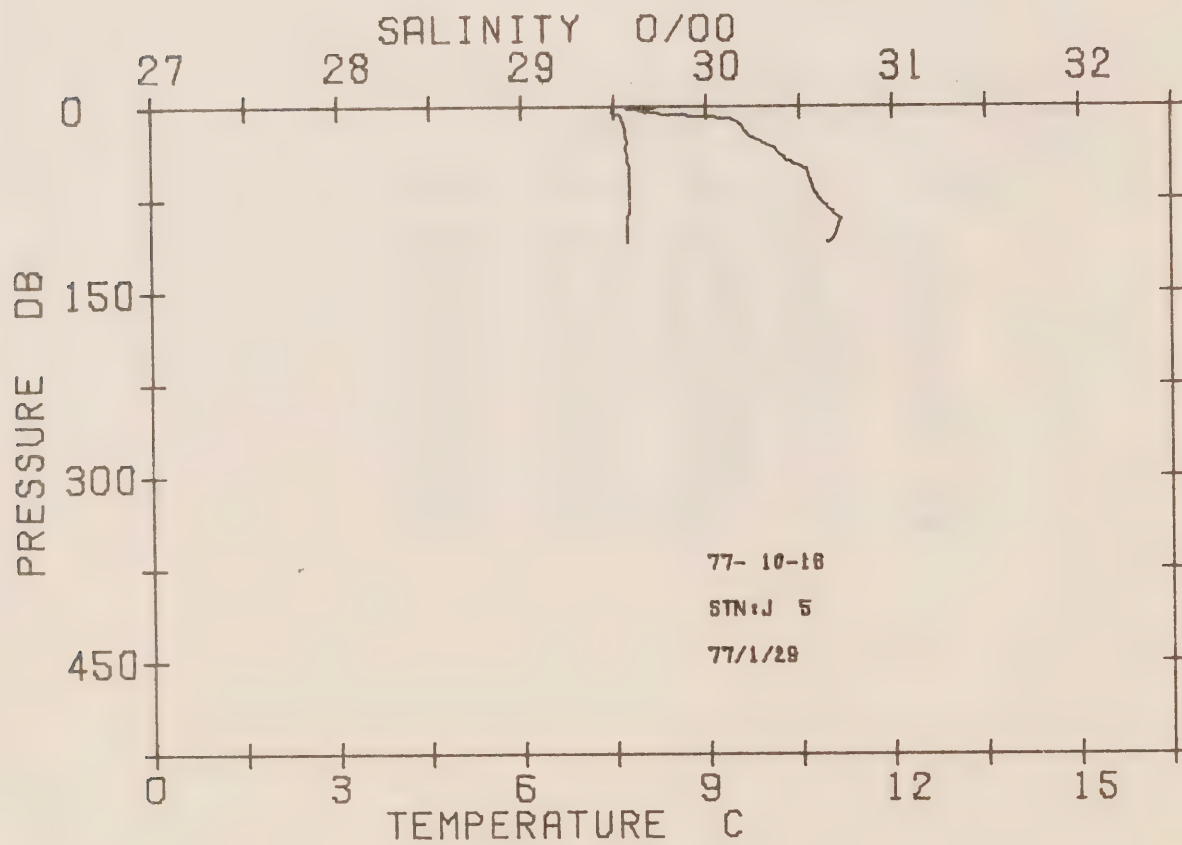
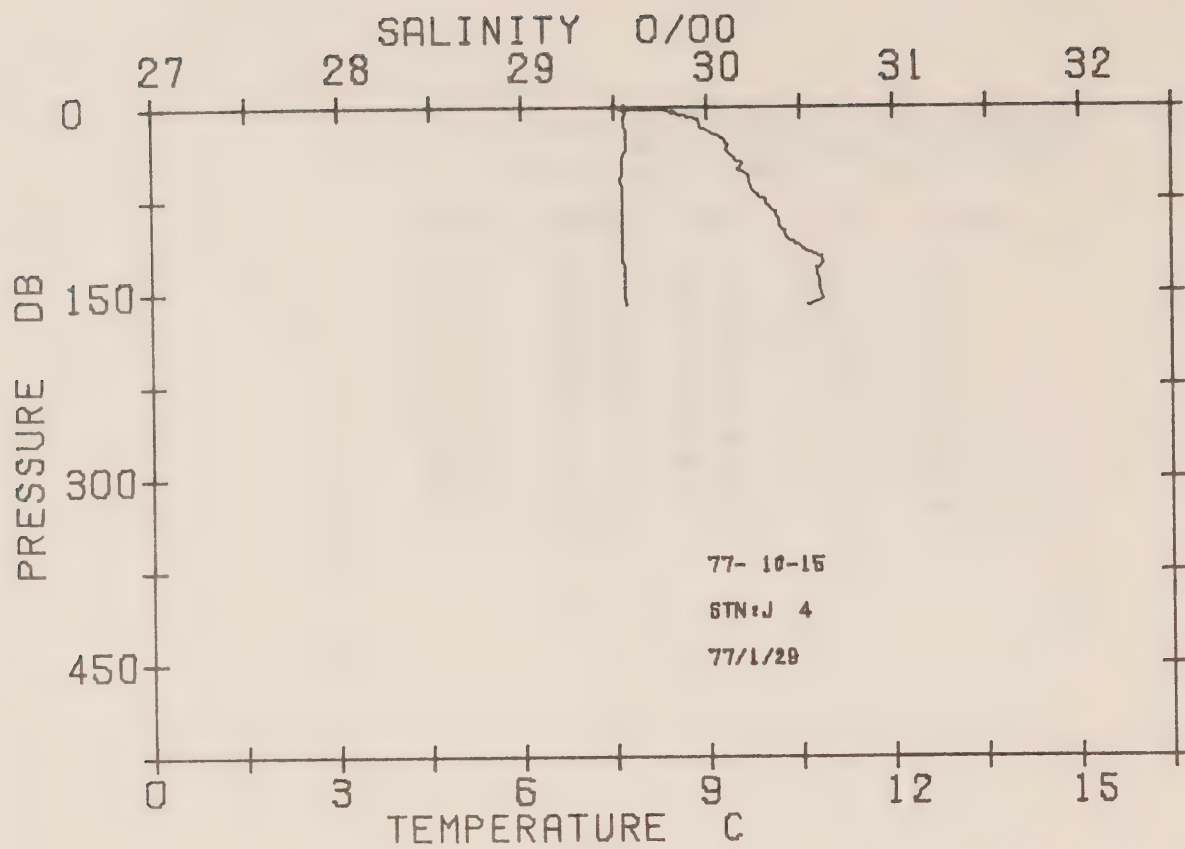


STATION J 4A CRUISE 77-10 CONS # 13
 POSITION 50-23.5N 125-53.4W
 DATE 77/ 1/29 TIME 6:35: 8 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.66	30.17	23.56	1475.
10	7.68	30.30	23.66	1476.
20	7.69	30.38	23.72	1476.
30	7.70	30.39	23.73	1476.
50	7.71	30.49	23.80	1477.
75	7.71	30.55	23.85	1477.
100	7.71	30.53	23.83	1478.
125	7.72	30.52	23.83	1478.
150	7.73	30.54	23.84	1479.
175	7.75	30.68	23.95	1479.
200	7.77	30.77	24.02	1480.

STATION J 3 CRUISE 77-10 CONS # 14
 POSITION 50-22.2N 125-39.0W
 DATE 77/ 1/29 TIME 7:45:26 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.63	29.84	23.31	1475.
10	7.68	29.93	23.37	1475.
20	7.68	29.95	23.39	1475.
30	7.69	29.97	23.40	1476.
50	7.69	29.98	23.41	1476.
75	7.69	30.03	23.44	1476.
100	7.69	30.06	23.47	1477.
125	7.69	30.07	23.48	1477.
150	7.70	30.12	23.51	1478.
175	7.70	30.12	23.52	1478.
200	7.70	30.21	23.59	1479.
225	7.70	30.21	23.59	1479.
250	7.71	30.26	23.62	1480.

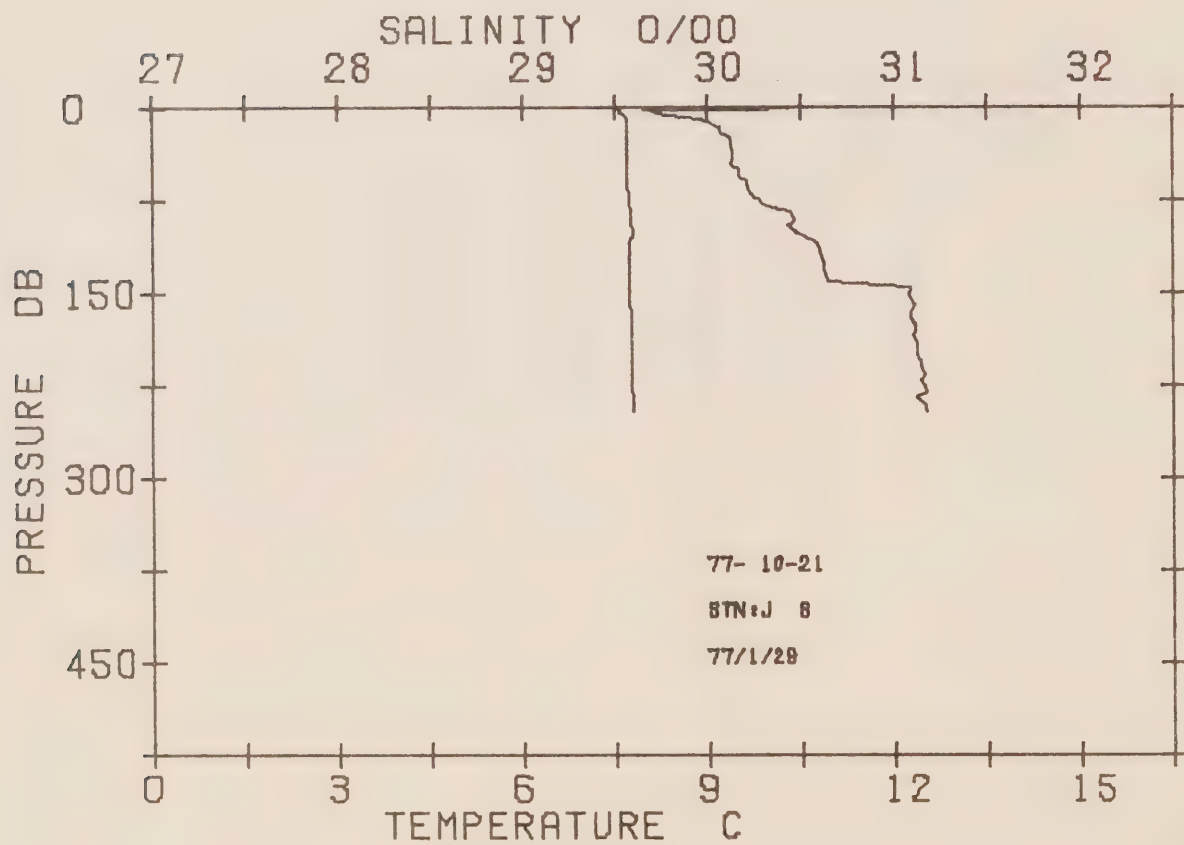
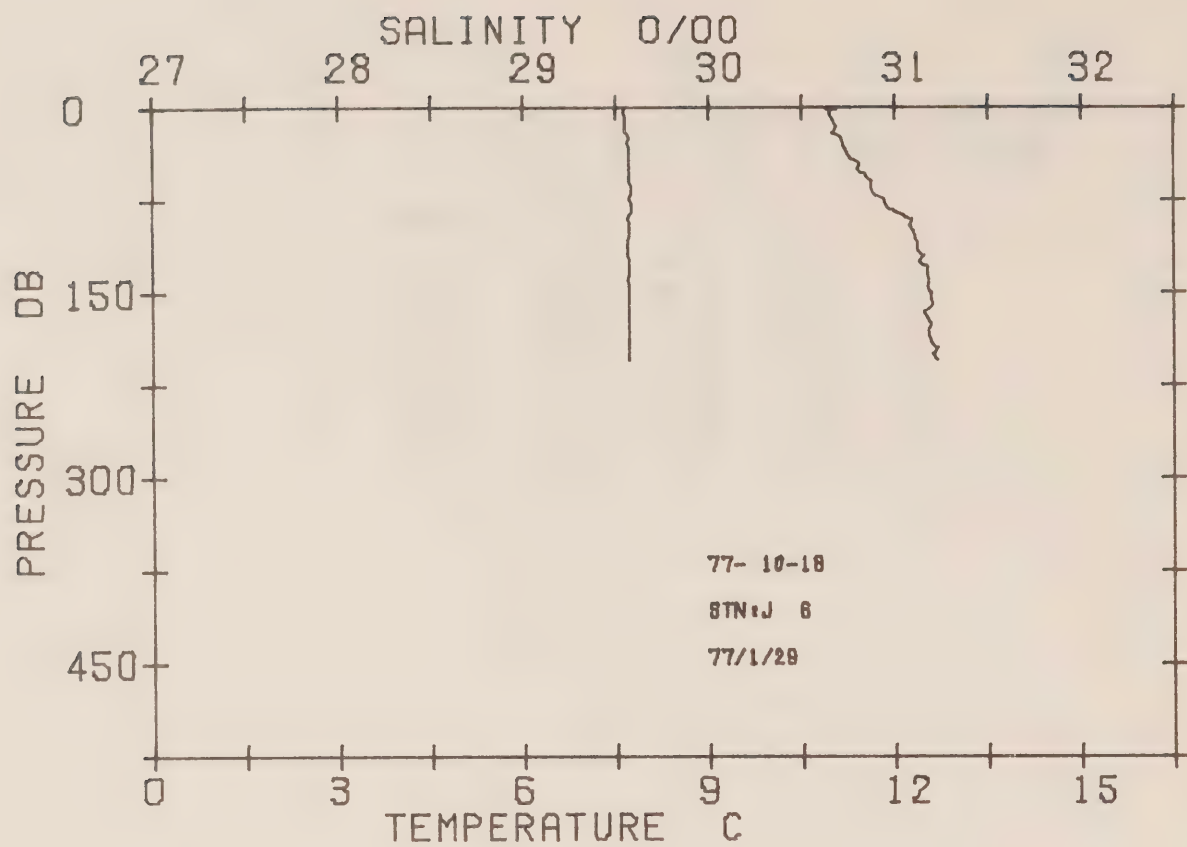


STATION J 4 CRUISE 77-10 CONS # 15
 POSITION 50-22.7N 125-47.0W
 DATE 77/ 1/29 TIME 11:59:47 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.67	29.55	23.07	1475.
10	7.67	29.96	23.39	1475.
20	7.68	30.02	23.44	1476.
30	7.68	30.11	23.51	1476.
50	7.61	30.17	23.57	1476.
75	7.61	30.31	23.68	1477.
100	7.61	30.42	23.76	1477.
125	7.64	30.62	23.91	1478.
150	7.67	30.61	23.91	1478.

STATION J 5 CRUISE 77-10 CONS # 16
 POSITION 50-24.5N 125-56.8W
 DATE 77/ 1/29 TIME 12:45:19 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.51	29.71	23.22	1474.
10	7.63	30.14	23.54	1475.
20	7.68	30.22	23.60	1476.
30	7.71	30.32	23.67	1476.
50	7.75	30.54	23.84	1477.
75	7.76	30.61	23.89	1478.
100	7.73	30.70	23.97	1478.

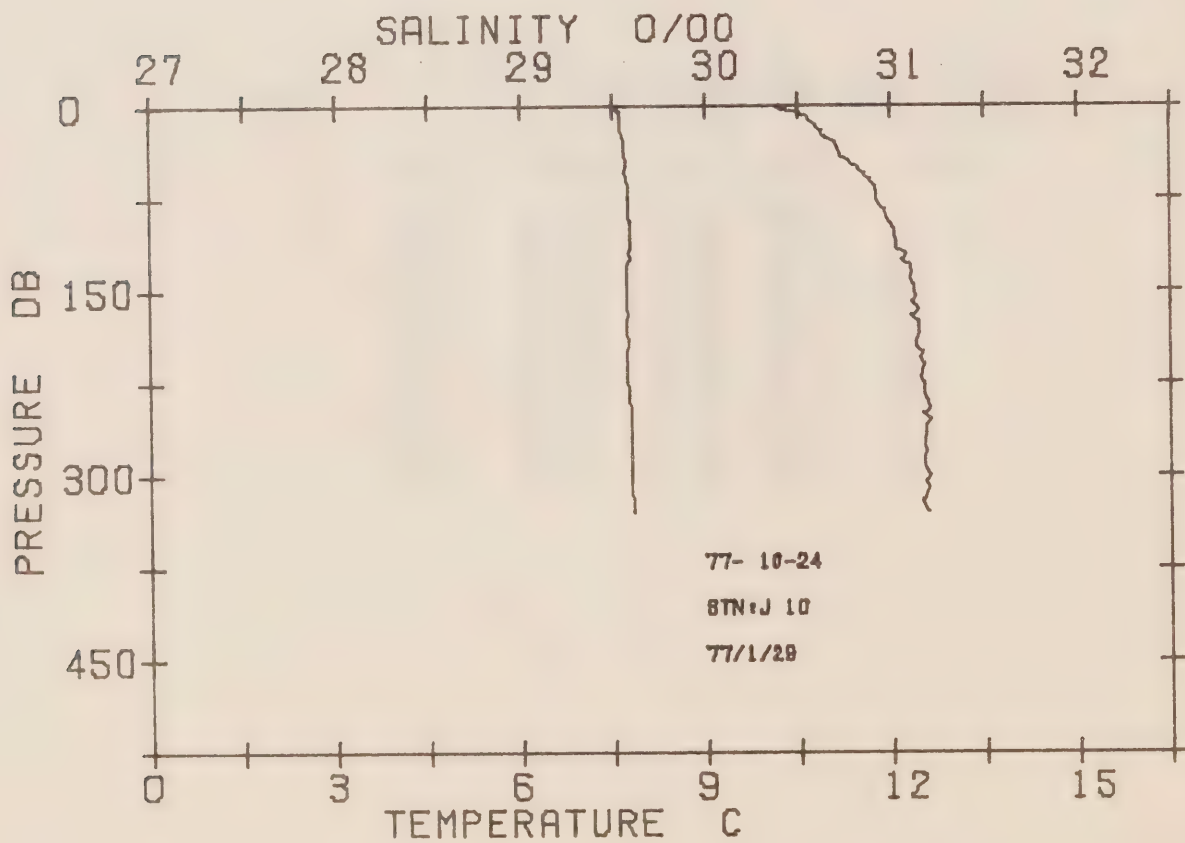
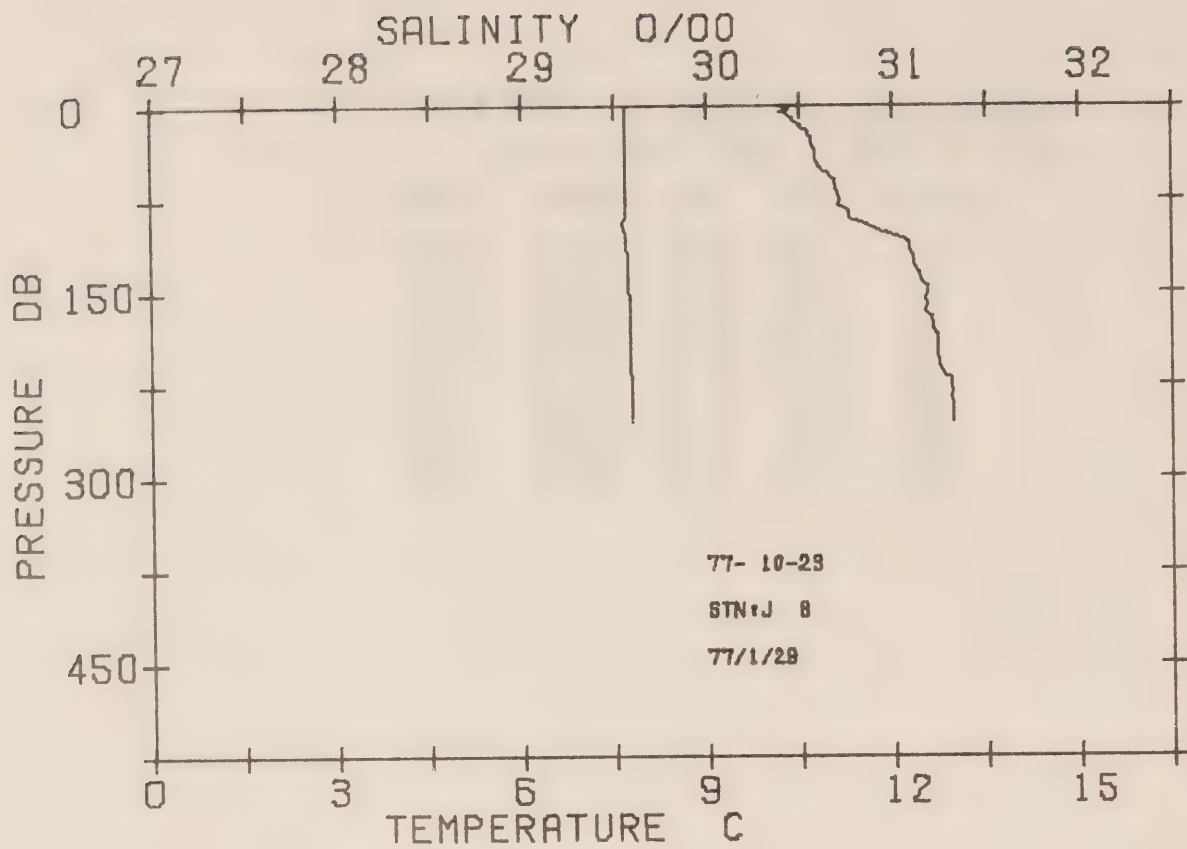


STATION J 6 CRUISE 77-10 CONS # 18
 POSITION 50-26.4N 126- .7W
 DATE 77/ 1/29 TIME 13:27:23 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.63	30.67	23.95	1476.
10	7.66	30.67	23.95	1476.
20	7.67	30.67	23.95	1476.
30	7.70	30.73	23.99	1477.
50	7.73	30.80	24.05	1477.
75	7.73	30.95	24.16	1478.
100	7.71	31.10	24.28	1478.
125	7.71	31.14	24.32	1479.
150	7.72	31.20	24.36	1479.
175	7.72	31.20	24.36	1480.
200	7.73	31.21	24.37	1480.

STATION J 8 CRUISE 77-10 CONS # 21
 POSITION 50-27.5N 126- 3.4W
 DATE 77/ 1/29 TIME 16: 0:18 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.58	30.43	23.78	1475.
10	7.68	29.97	23.40	1475.
20	7.69	30.07	23.48	1476.
30	7.69	30.13	23.52	1476.
50	7.68	30.17	23.56	1476.
75	7.71	30.28	23.64	1477.
100	7.77	30.47	23.78	1478.
125	7.72	30.62	23.90	1478.
150	7.73	31.08	24.26	1479.
175	7.74	31.11	24.28	1480.
200	7.75	31.13	24.30	1480.
225	7.76	31.17	24.33	1481.

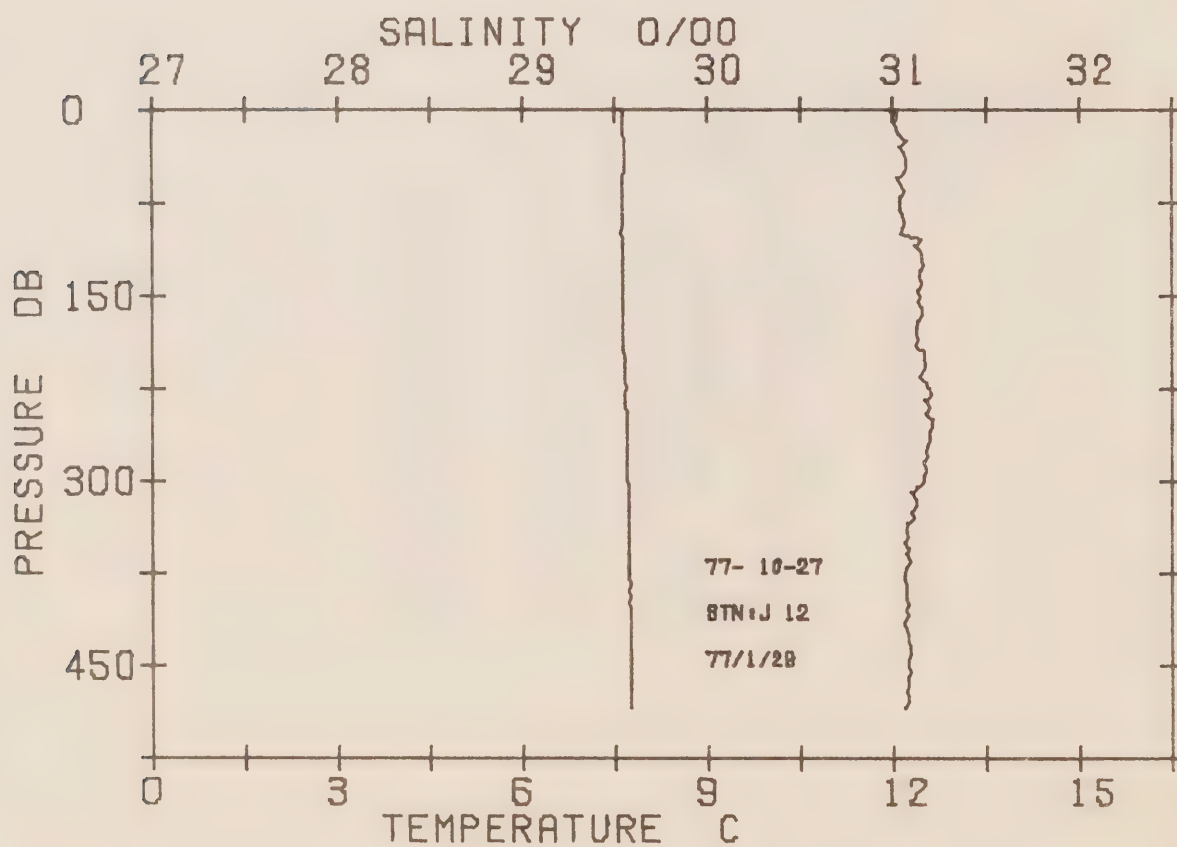
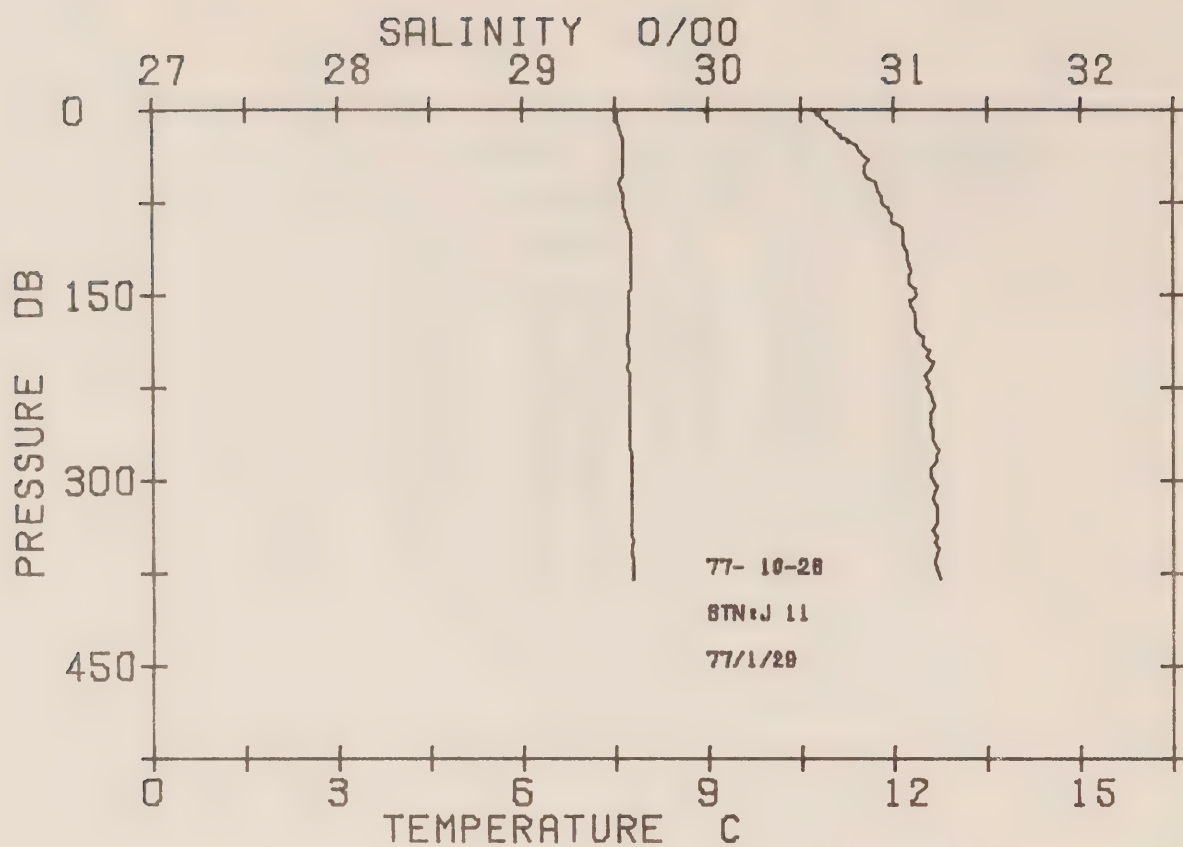


STATION J 8 CRUISE 77-10 CONS # 23
 POSITION 50-27.5N 126- 3.4W
 DATE 77/ 1/29 TIME 16:44:14 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.68	30.42	23.75	1476.
10	7.69	30.46	23.78	1476.
20	7.69	30.54	23.85	1476.
30	7.69	30.56	23.86	1476.
50	7.69	30.61	23.90	1477.
75	7.69	30.72	23.99	1477.
100	7.66	30.93	24.15	1478.
125	7.71	31.11	24.29	1479.
150	7.73	31.19	24.35	1479.
175	7.75	31.22	24.37	1480.
200	7.76	31.24	24.39	1480.
225	7.78	31.31	24.44	1481.
250	7.78	31.32	24.44	1481.

STATION J 10 CRUISE 77-10 CONS # 24
 POSITION 50-29.7N 126-18.7W
 DATE 77/ 1/29 TIME 19:15:43 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.59	30.40	23.75	1475.
10	7.61	30.55	23.87	1476.
20	7.64	30.63	23.93	1476.
30	7.68	30.71	23.98	1477.
50	7.71	30.82	24.06	1477.
75	7.76	30.93	24.14	1478.
100	7.78	31.02	24.21	1479.
125	7.78	31.06	24.24	1479.
150	7.73	31.12	24.29	1479.
175	7.72	31.15	24.32	1480.
200	7.73	31.17	24.33	1480.
225	7.73	31.18	24.34	1481.
250	7.78	31.18	24.33	1481.
275	7.78	31.18	24.33	1482.
300	7.78	31.21	24.36	1482.
325	7.80	31.18	24.33	1482.

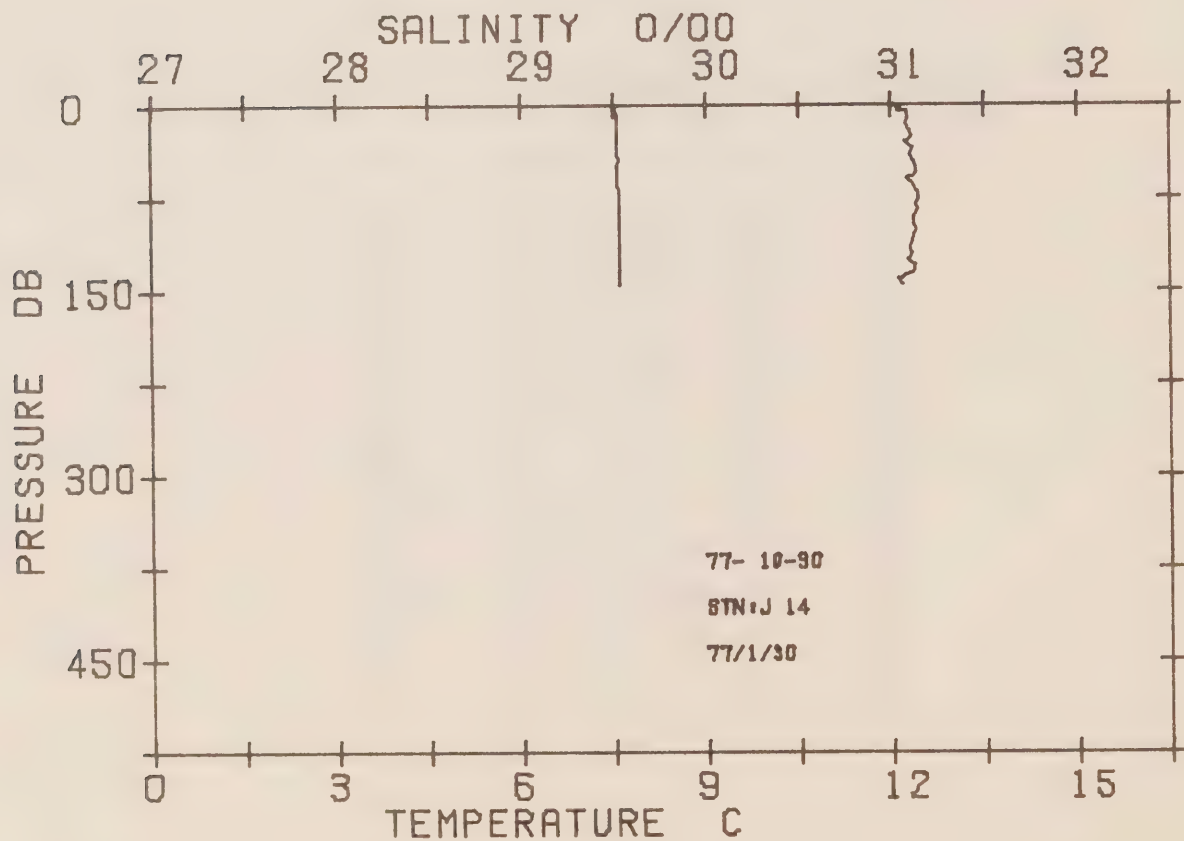
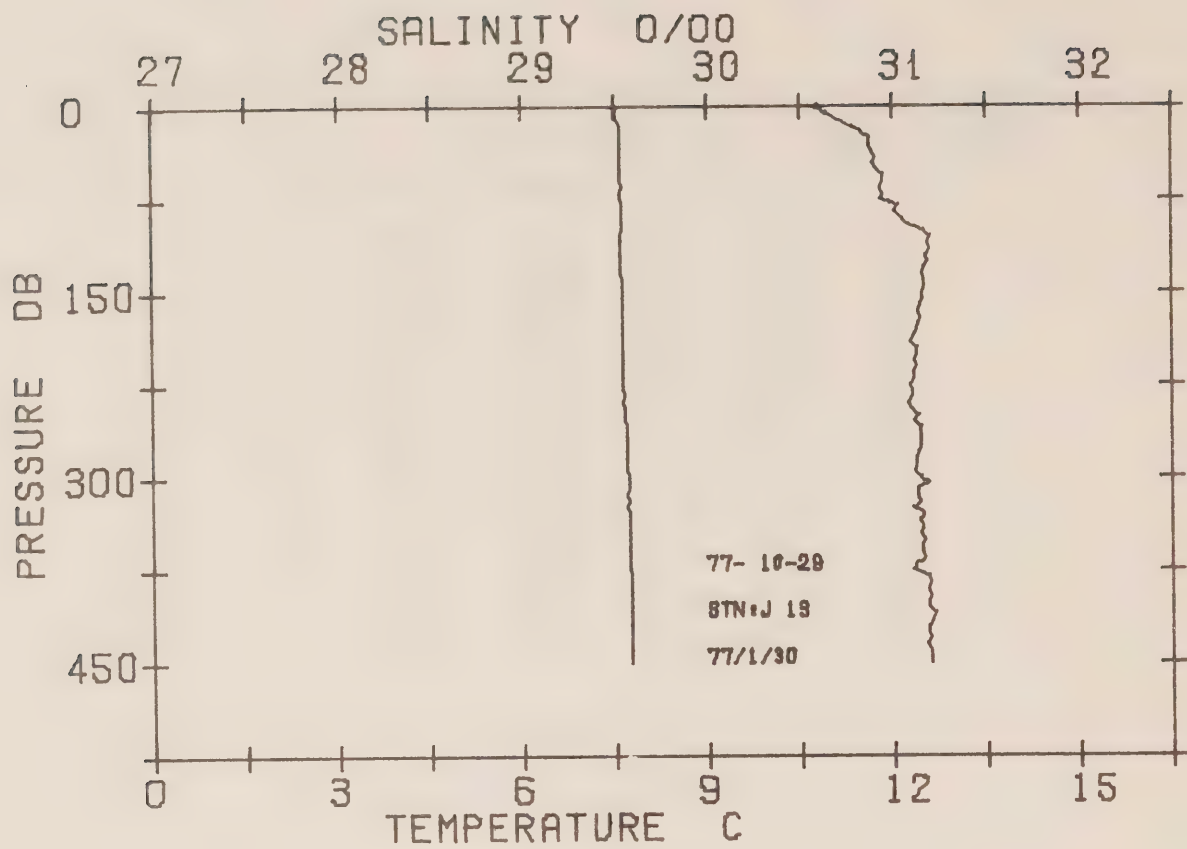


STATION J 11 CRUISE 77-10 CONS # 26
 POSITION 50-30.0N 126-30.0W
 DATE 77/ 1/29 TIME 21:27:30 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.53	30.57	23.89	1475.
10	7.52	30.64	23.95	1476.
20	7.59	30.71	23.99	1476.
30	7.62	30.80	24.06	1477.
50	7.64	30.84	24.08	1477.
75	7.61	30.94	24.17	1477.
100	7.74	31.05	24.23	1478.
125	7.74	31.08	24.26	1479.
150	7.73	31.12	24.29	1479.
175	7.73	31.11	24.29	1480.
200	7.71	31.18	24.34	1480.
225	7.72	31.18	24.34	1481.
250	7.73	31.20	24.36	1481.
275	7.73	31.24	24.38	1481.
300	7.75	31.21	24.36	1482.
325	7.75	31.23	24.38	1482.
350	7.77	31.22	24.37	1483.
375	7.78	31.24	24.38	1483.

STATION J 12 CRUISE 77-10 CONS # 27
 POSITION 50-31.7N 126-41.0W
 DATE 77/ 1/29 TIME 22:27:37 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.62	31.00	24.22	1476.
10	7.63	31.01	24.22	1476.
20	7.63	31.04	24.25	1477.
30	7.65	31.04	24.24	1477.
50	7.65	31.06	24.26	1477.
75	7.64	31.04	24.25	1478.
100	7.58	31.04	24.26	1478.
125	7.62	31.17	24.35	1479.
150	7.62	31.15	24.33	1479.
175	7.62	31.13	24.32	1479.
200	7.65	31.17	24.35	1480.
225	7.68	31.20	24.36	1480.
250	7.68	31.21	24.37	1481.
275	7.69	31.18	24.35	1481.
300	7.70	31.17	24.34	1482.
325	7.72	31.10	24.28	1482.
350	7.72	31.06	24.25	1482.
375	7.73	31.06	24.25	1483.
400	7.73	31.08	24.26	1483.
425	7.74	31.08	24.26	1484.
450	7.74	31.08	24.26	1484.
475	7.74	31.08	24.26	1485.

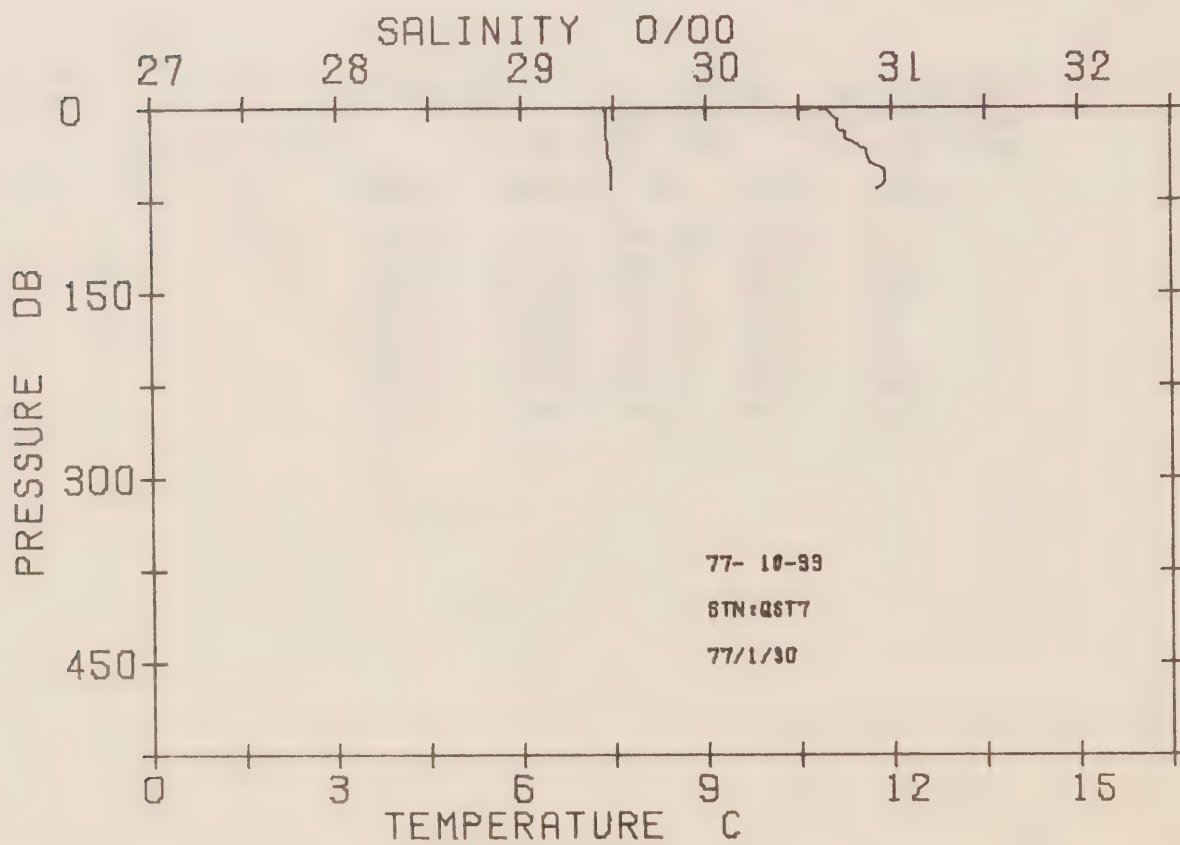
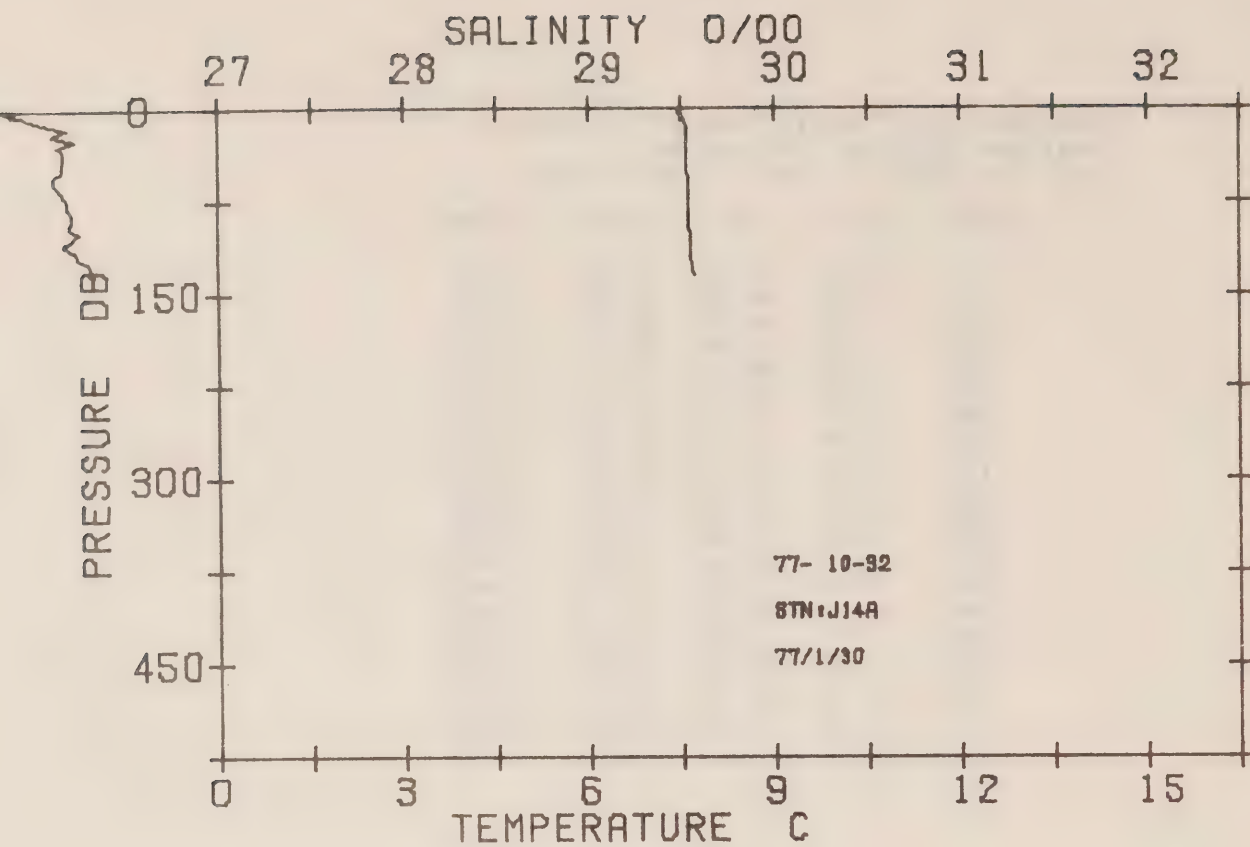


STATION J 13 CRUISE 77-10 CONS # 29
 POSITION 50-33.3N 126-47.0W
 DATE 77/ 1/30 TIME 0:12:21 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.51	30.58	23.90	1475.
10	7.52	30.69	23.99	1476.
20	7.59	30.83	24.09	1476.
30	7.59	30.88	24.13	1476.
50	7.60	30.92	24.15	1477.
75	7.60	30.94	24.17	1477.
100	7.63	31.17	24.34	1478.
125	7.60	31.19	24.37	1478.
150	7.62	31.16	24.34	1479.
175	7.62	31.14	24.32	1479.
200	7.63	31.12	24.31	1480.
225	7.64	31.09	24.29	1480.
250	7.67	31.14	24.32	1481.
275	7.69	31.15	24.33	1481.
300	7.71	31.15	24.32	1482.
325	7.70	31.11	24.29	1482.
350	7.73	31.17	24.34	1483.
375	7.73	31.10	24.28	1483.
400	7.75	31.19	24.35	1483.
425	7.75	31.19	24.35	1484.
450	7.75	31.20	24.35	1484.

STATION J 14 CRUISE 77-10 CONS # 30
 POSITION 50-34.0N 126-52.0W
 DATE 77/ 1/30 TIME 0:58:36 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.53	30.99	24.22	1476.
10	7.56	31.09	24.30	1476.
20	7.57	31.10	24.30	1476.
30	7.57	31.08	24.29	1477.
50	7.57	31.14	24.34	1477.
75	7.58	31.15	24.34	1478.
100	7.58	31.14	24.33	1478.
125	7.59	31.09	24.29	1478.

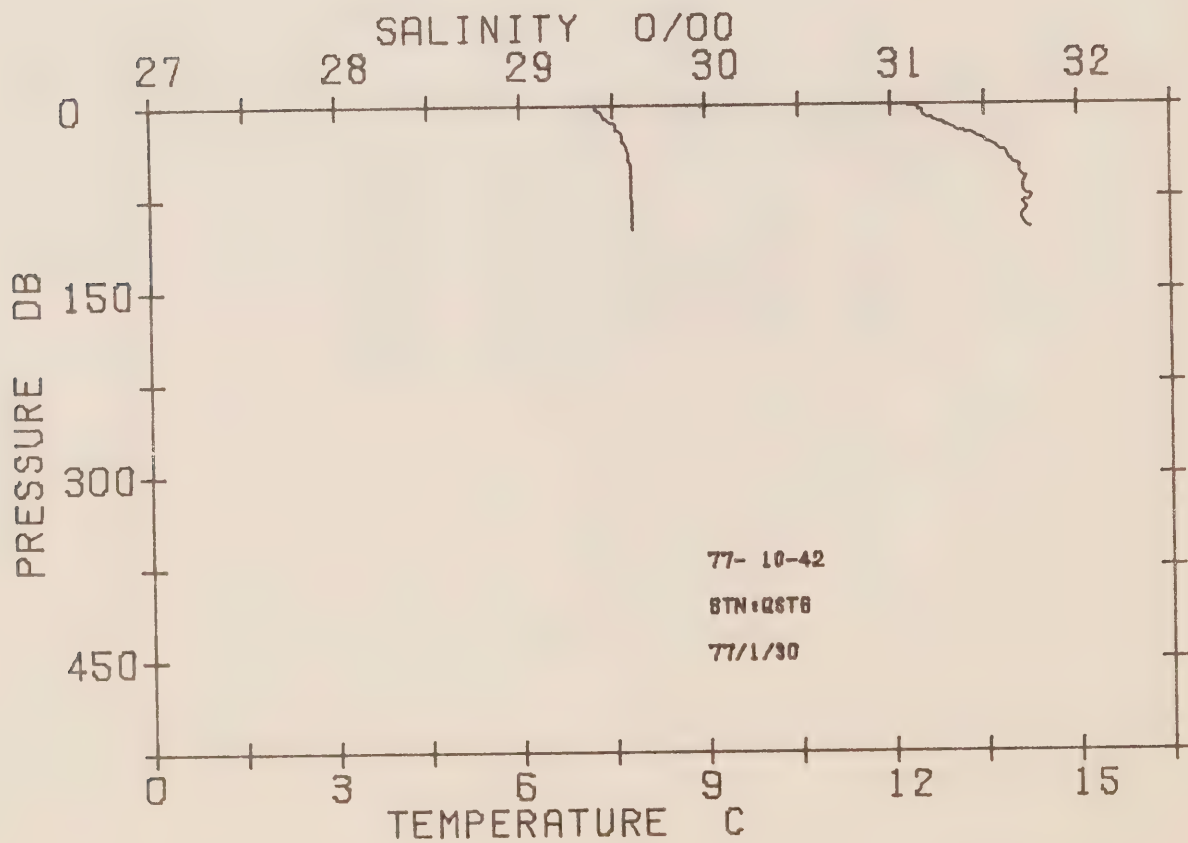
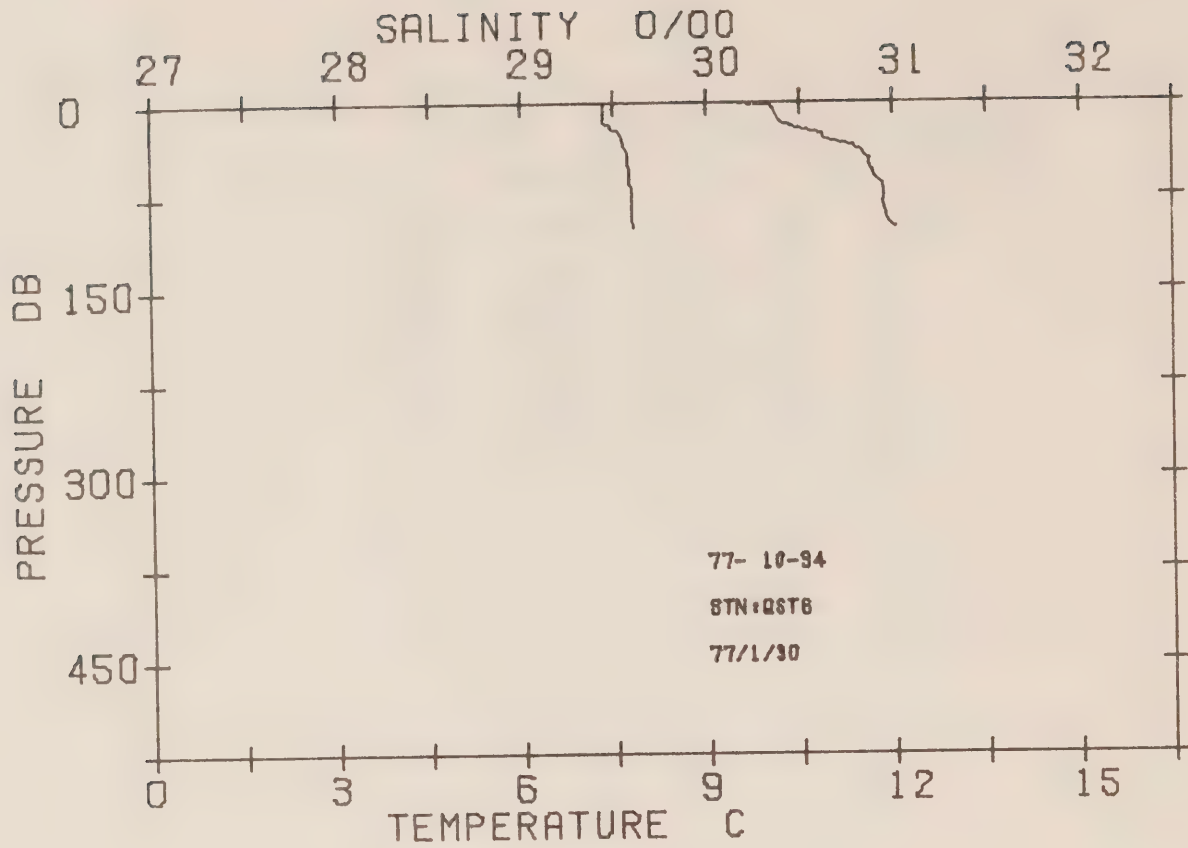


STATION J14A CRUISE 77-10 CONS # 32
 POSITION 50-36.4N 126-50.0W
 DATE 77/ 1/30 TIME 2: 8:38 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.47	25.77	20.14	1469.
10	7.55	26.00	20.31	1470.
20	7.59	26.09	20.38	1470.
30	7.60	26.12	20.40	1470.
50	7.60	26.15	20.42	1471.
75	7.62	26.18	20.44	1471.
100	7.65	26.24	20.48	1472.
125	7.68	26.30	20.53	1472.

STATION QST7 CRUISE 77-10 CONS # 33
 POSITION 50-37.3N 127- 5.0W
 DATE 77/ 1/30 TIME 3:10:51 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.36	30.56	23.91	1475.
10	7.37	30.71	24.02	1475.
20	7.38	30.75	24.05	1475.
30	7.41	30.82	24.10	1476.
50	7.46	30.97	24.21	1476.

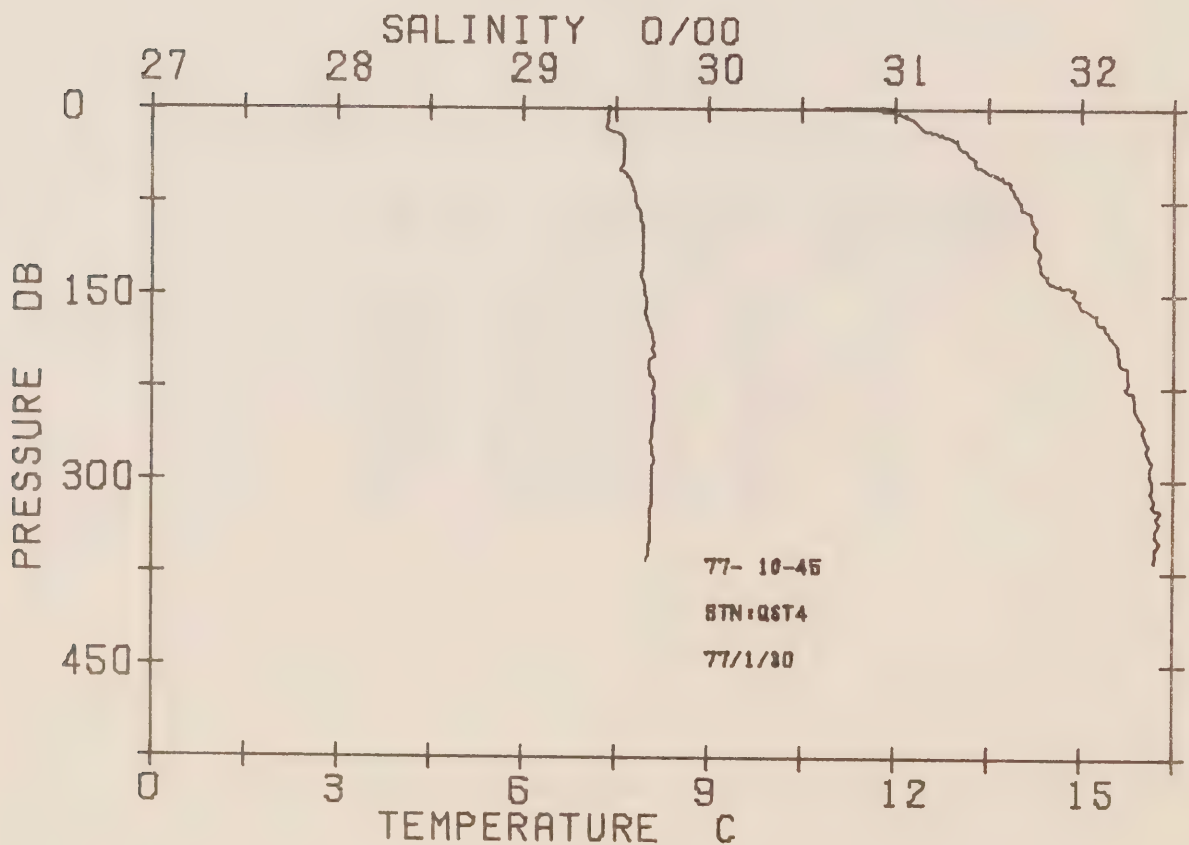
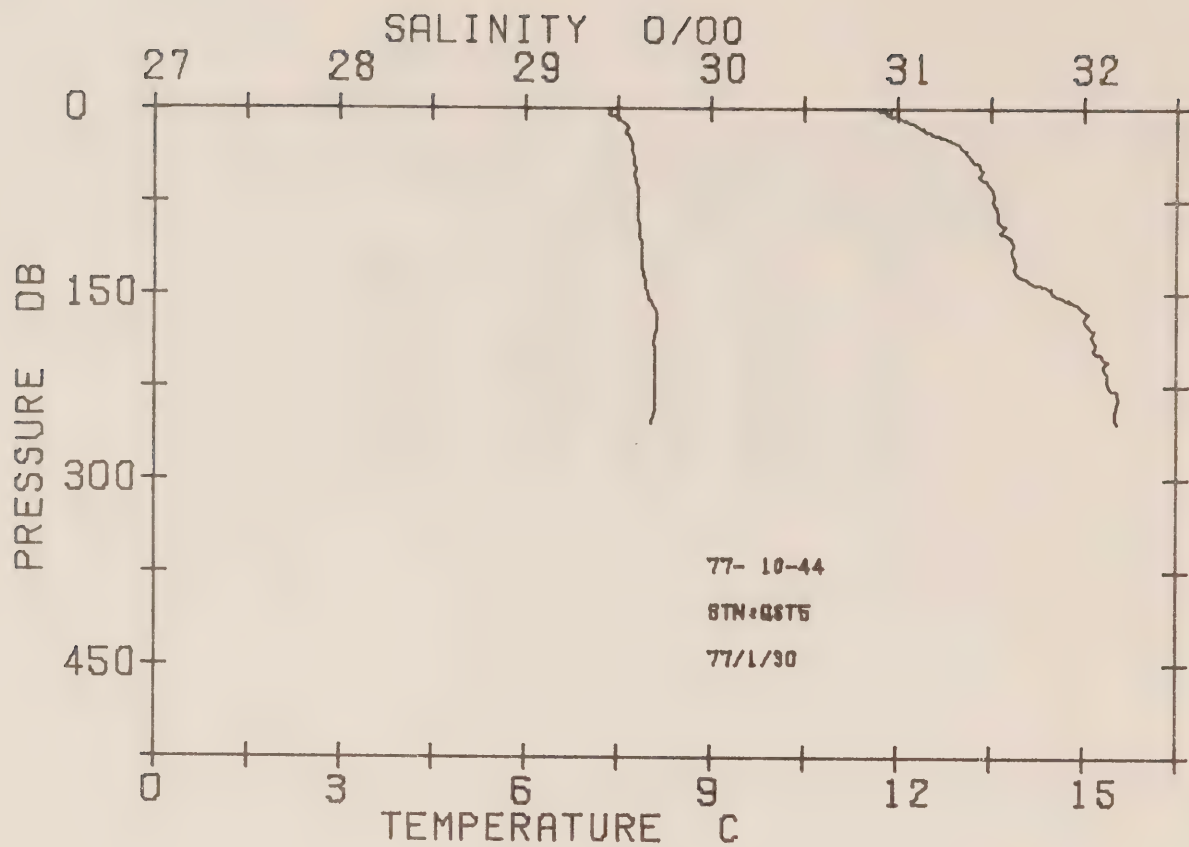


STATION QST6 CRUISE 77-10 CONS # 34
 POSITION 50-40.5N 127-13.5W
 DATE 77/ 1/30 TIME 4: 7:24 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.34	30.21	23.64	1474.
10	7.33	30.37	23.76	1474.
20	7.47	30.49	23.84	1475.
30	7.61	30.64	23.94	1476.
50	7.73	30.88	24.10	1477.
75	7.77	30.96	24.16	1478.
100	7.80	31.01	24.20	1479.

STATION QST6 CRUISE 77-10 CONS # 42
 POSITION 50-41.0N 127-15.1W
 DATE 77/ 1/30 TIME 8: 1:16 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.23	31.03	24.29	1475.
10	7.33	31.18	24.40	1476.
20	7.55	31.34	24.49	1477.
30	7.67	31.51	24.61	1478.
50	7.77	31.69	24.73	1479.
75	7.79	31.75	24.78	1479.
100	7.80	31.74	24.77	1480.

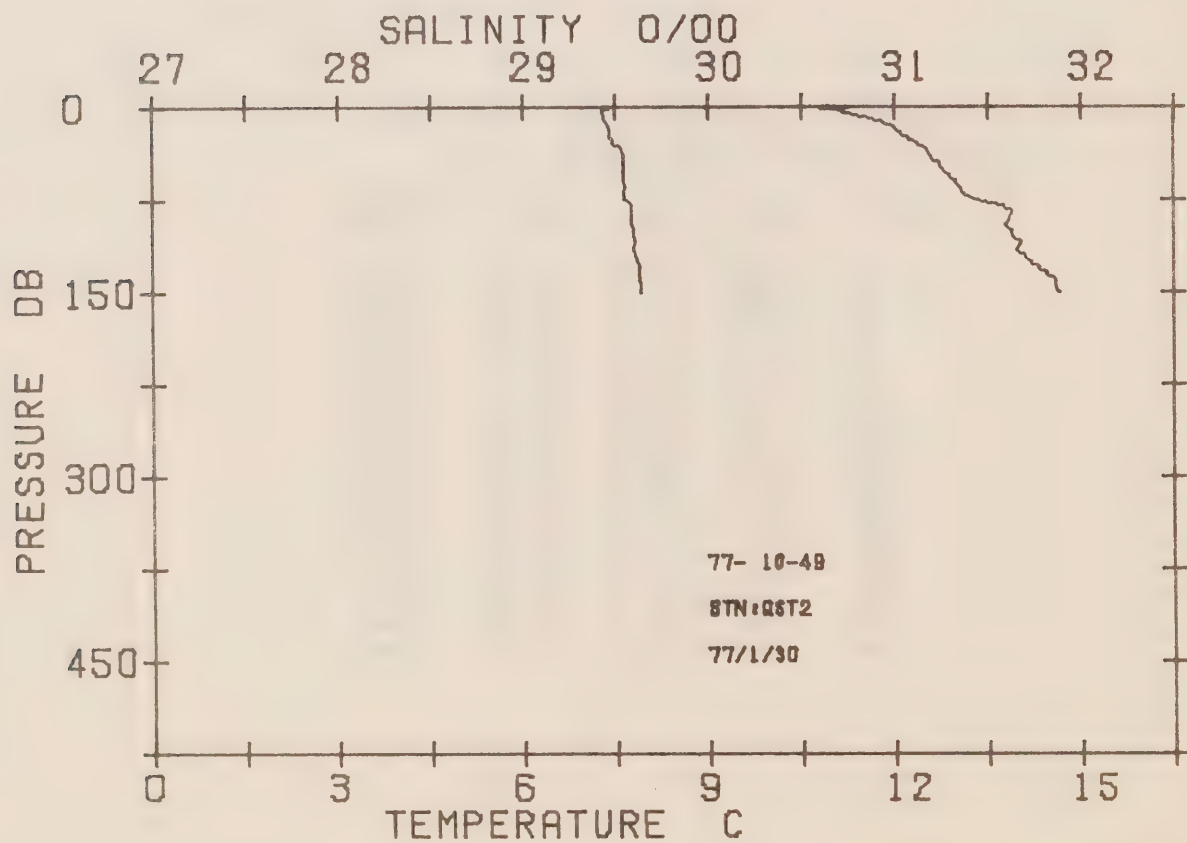
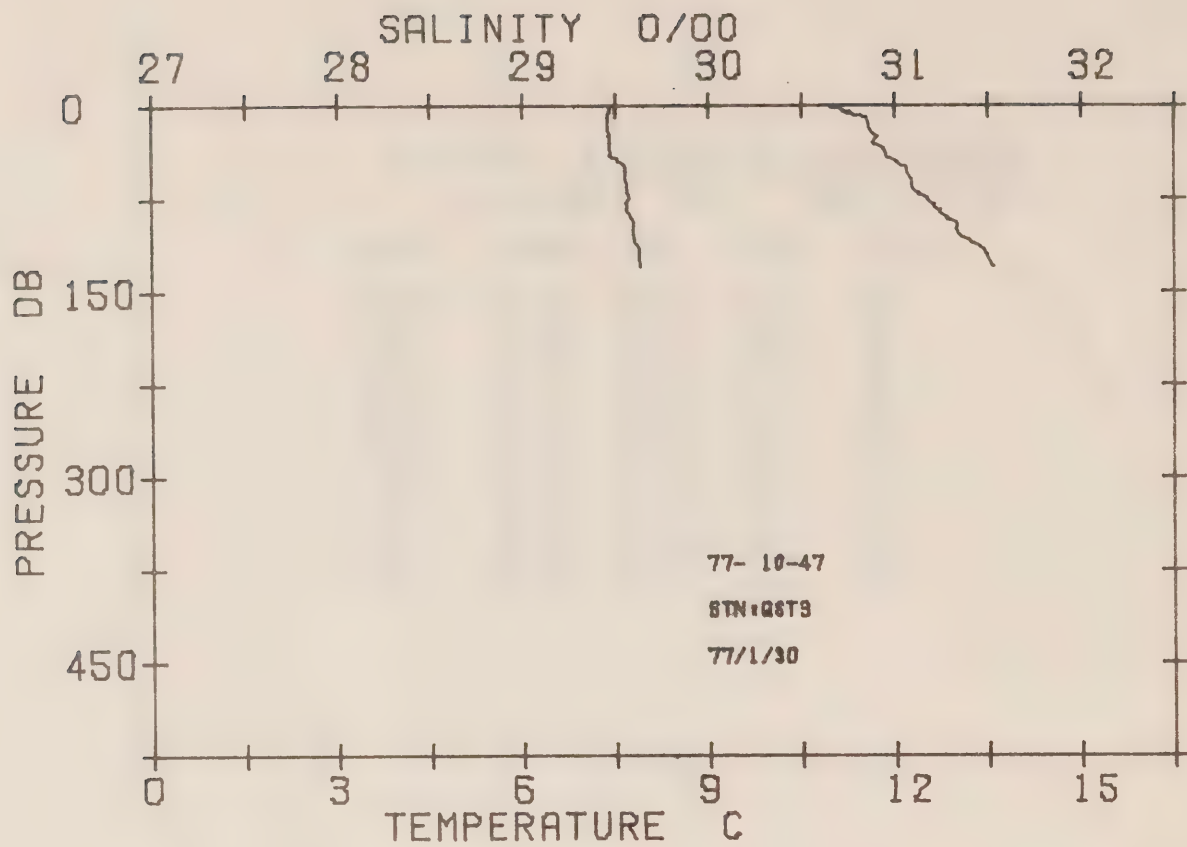


STATION QST5 CRUISE 77-10 CONS # 44
 POSITION 50-45.0N 127-20.0W
 DATE 77/ 1/30 TIME 8:54:19 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.36	30.90	24.18	1475.
10	7.52	31.04	24.27	1476.
20	7.63	31.18	24.36	1477.
30	7.72	31.33	24.46	1478.
50	7.77	31.46	24.55	1478.
75	7.81	31.51	24.59	1479.
100	7.85	31.55	24.61	1479.
125	7.87	31.64	24.68	1480.
150	7.97	31.83	24.82	1481.
175	8.12	32.02	24.95	1482.
200	8.09	32.09	25.01	1483.
225	8.09	32.14	25.04	1483.
250	8.07	32.17	25.07	1484.

STATION QST4 CRUISE 77-10 CONS # 45
 POSITION 50-47.0N 127-29.0W
 DATE 77/ 1/30 TIME 10:20:27 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.38	30.97	24.22	1475.
10	7.38	31.11	24.33	1476.
20	7.55	31.25	24.42	1477.
30	7.62	31.34	24.48	1477.
50	7.59	31.49	24.61	1478.
75	7.82	31.68	24.72	1479.
100	7.93	31.75	24.76	1480.
125	7.93	31.78	24.79	1480.
150	7.97	31.96	24.92	1481.
175	8.04	32.13	25.04	1482.
200	8.11	32.21	25.10	1483.
225	8.11	32.24	25.12	1483.
250	8.11	32.32	25.18	1484.
275	8.09	32.35	25.20	1484.
300	8.10	32.39	25.23	1485.
325	8.07	32.43	25.27	1485.
350	8.05	32.43	25.27	1485.

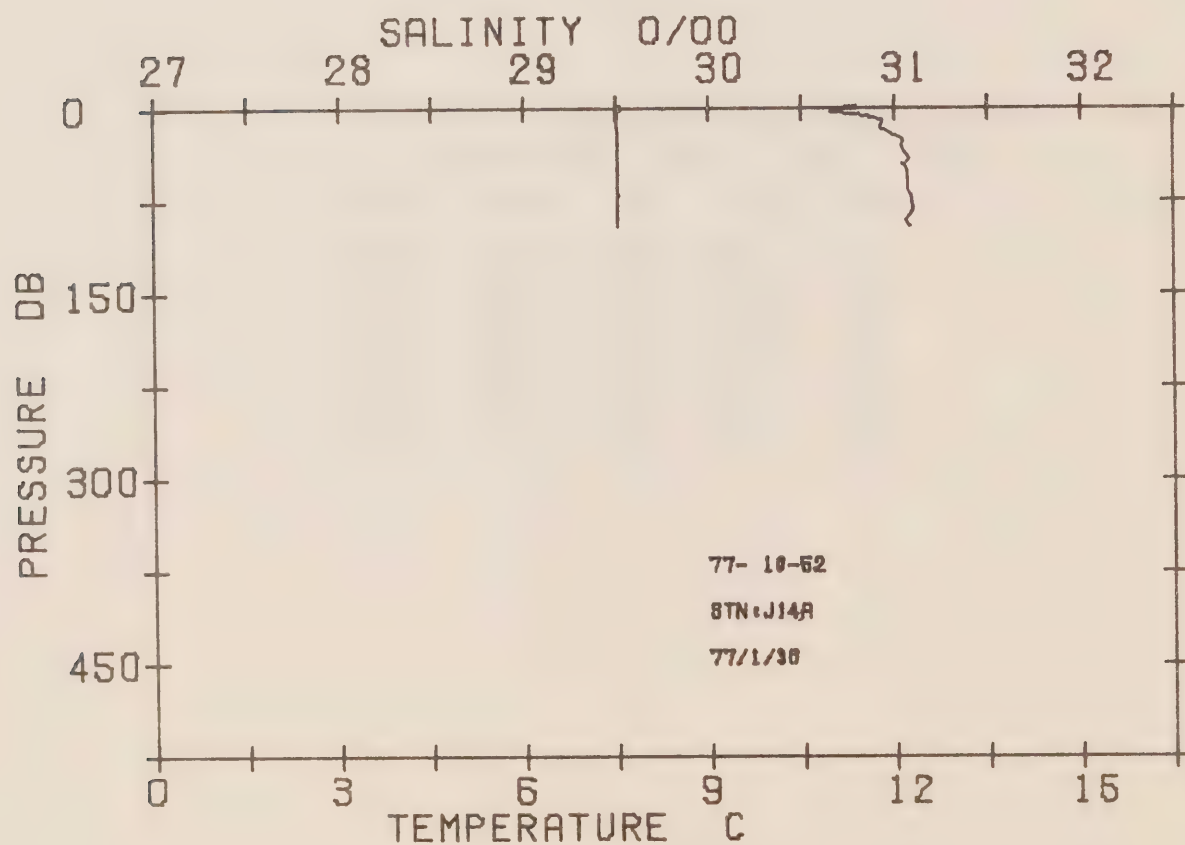
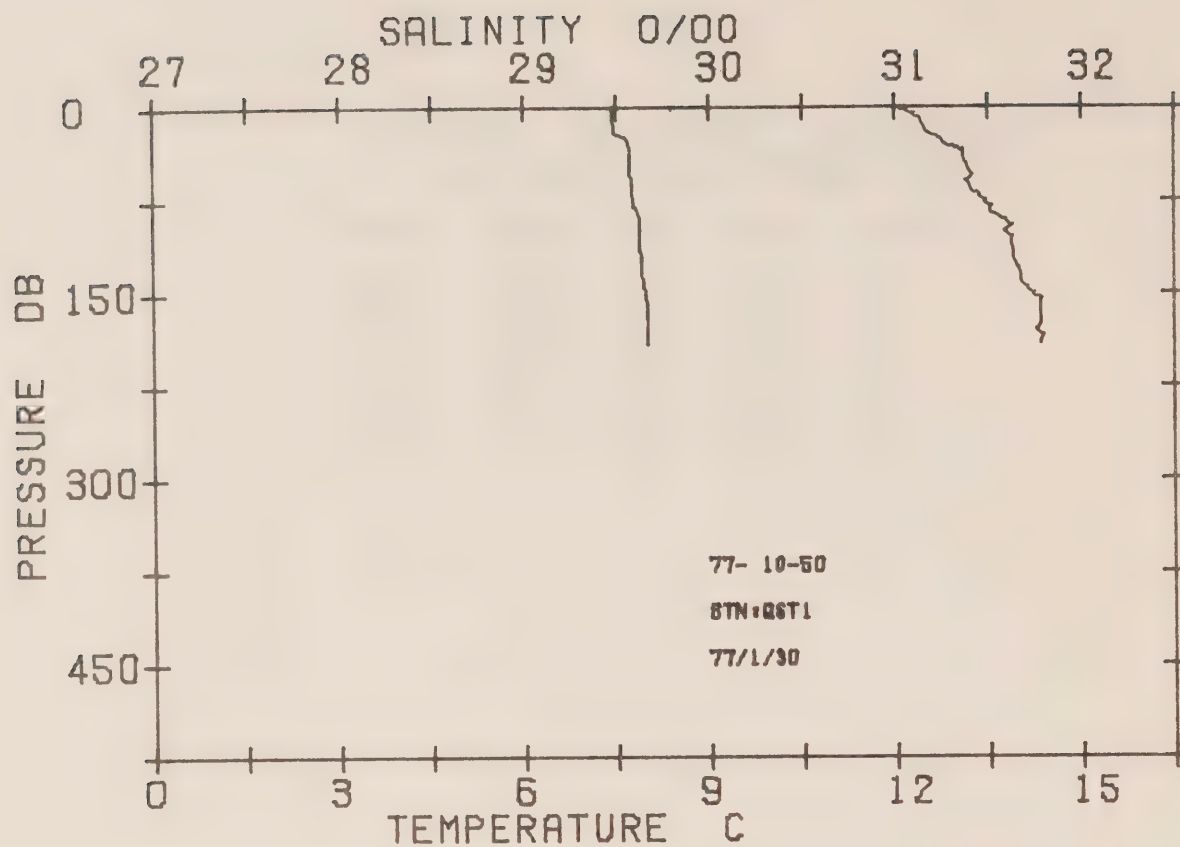


STATION QST3 CRUISE 77-10 CONS # 47
 POSITION 50-51.0N 127-20.0W
 DATE 77/ 1/30 TIME 11:43:31 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.42	30.69	24.00	1475.
10	7.39	30.85	24.13	1475.
20	7.39	30.87	24.15	1476.
30	7.41	30.89	24.16	1476.
50	7.66	31.06	24.26	1477.
75	7.72	31.18	24.35	1478.
100	7.79	31.33	24.45	1479.
125	7.88	31.51	24.58	1480.

STATION QST2 CRUISE 77-10 CONS # 49
 POSITION 50-45.0N 127- 8.2W
 DATE 77/ 1/30 TIME 13:51:26 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.40	30.60	23.93	1475.
10	7.30	30.89	24.17	1475.
20	7.40	31.03	24.27	1476.
30	7.48	31.12	24.33	1476.
50	7.61	31.26	24.42	1477.
75	7.65	31.44	24.56	1478.
100	7.78	31.63	24.69	1479.
125	7.83	31.73	24.76	1480.
150	7.90	31.89	24.87	1481.

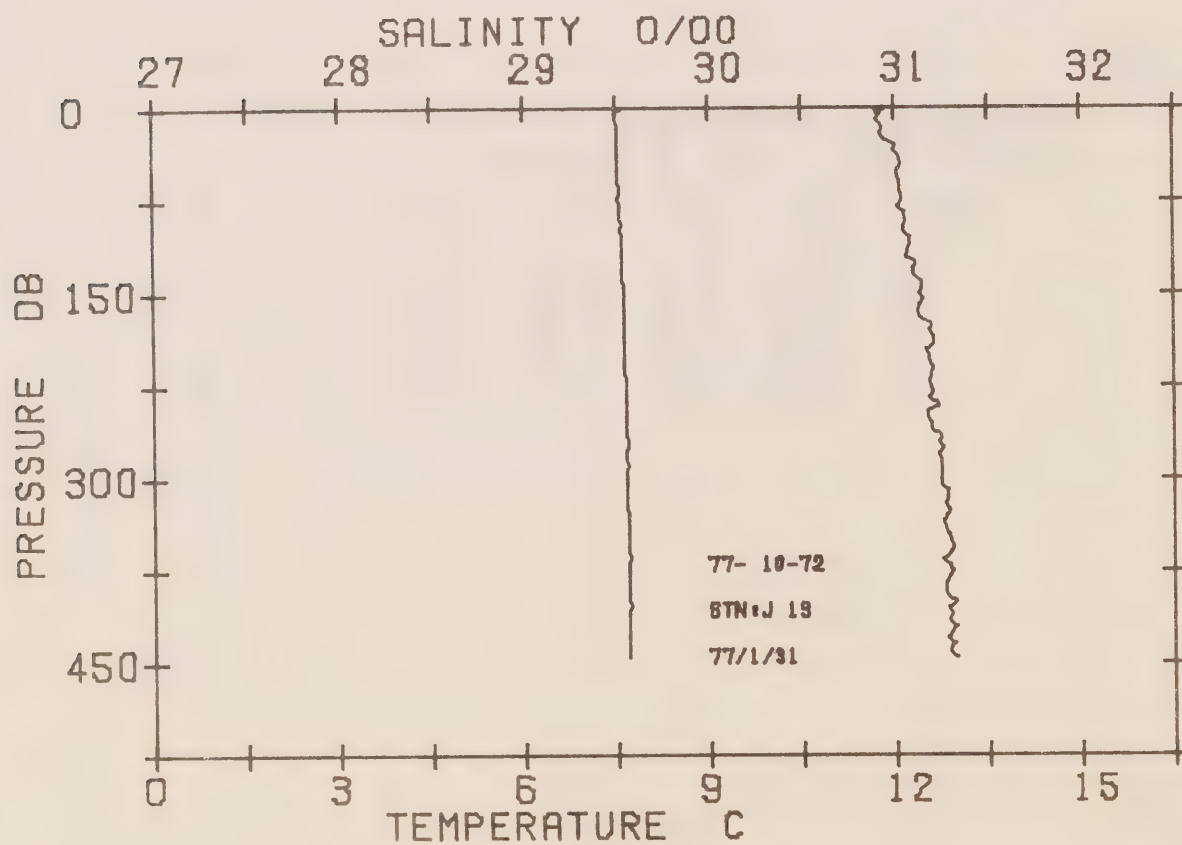
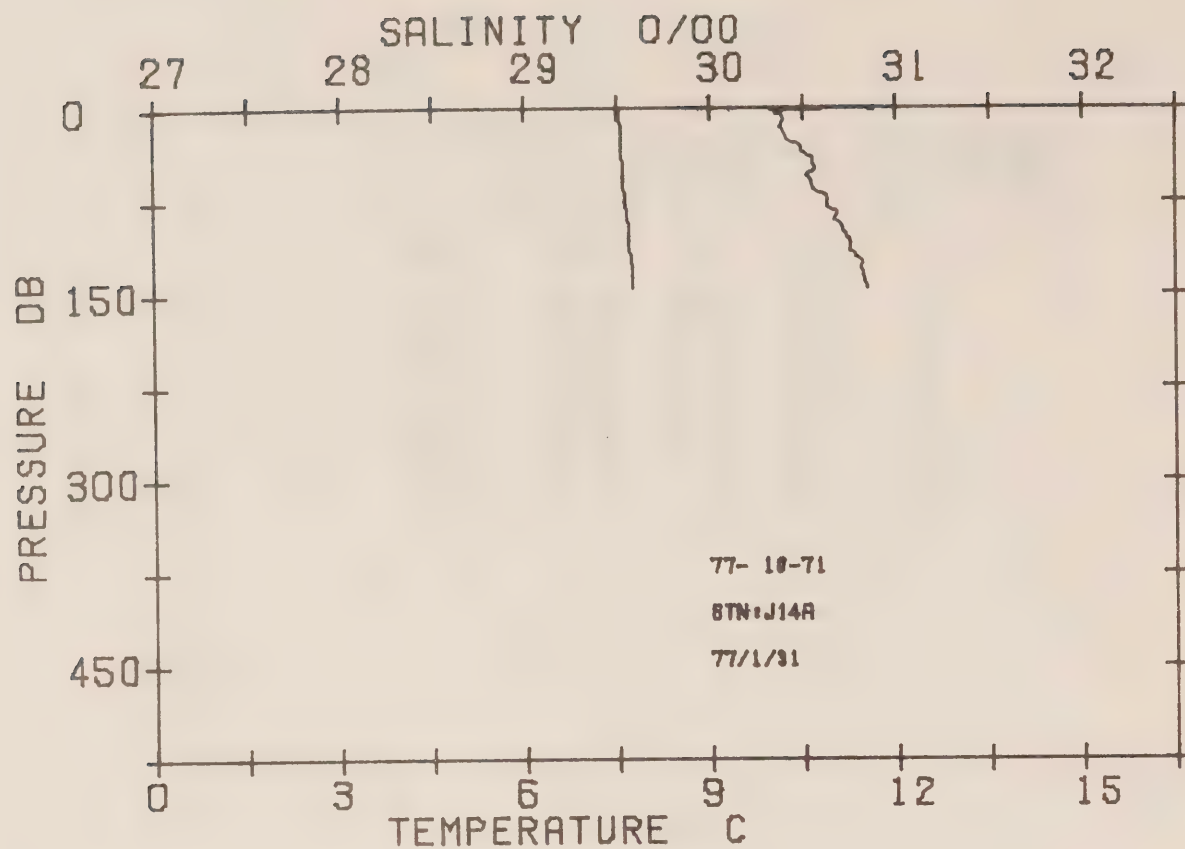


STATION QST1 CRUISE 77-10 CONS # 50
 POSITION 50-41.9N 126-55.5W
 DATE 77/ 1/30 TIME 14:46:13 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.44	31.04	24.27	1476.
10	7.45	31.14	24.35	1476.
20	7.47	31.18	24.38	1476.
30	7.68	31.27	24.42	1477.
50	7.73	31.40	24.52	1478.
75	7.77	31.48	24.57	1479.
100	7.88	31.59	24.64	1480.
125	7.91	31.65	24.69	1480.
150	7.98	31.74	24.75	1481.
175	7.99	31.78	24.78	1482.

STATION J14A CRUISE 77-10 CONS # 52
 POSITION 50-36.4N 126-50.0W
 DATE 77/ 1/30 TIME 18: 2:27 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.53	30.77	24.05	1476.
10	7.51	30.94	24.19	1476.
20	7.52	30.99	24.22	1476.
30	7.52	31.04	24.26	1476.
50	7.53	31.07	24.28	1477.
75	7.52	31.09	24.30	1477.

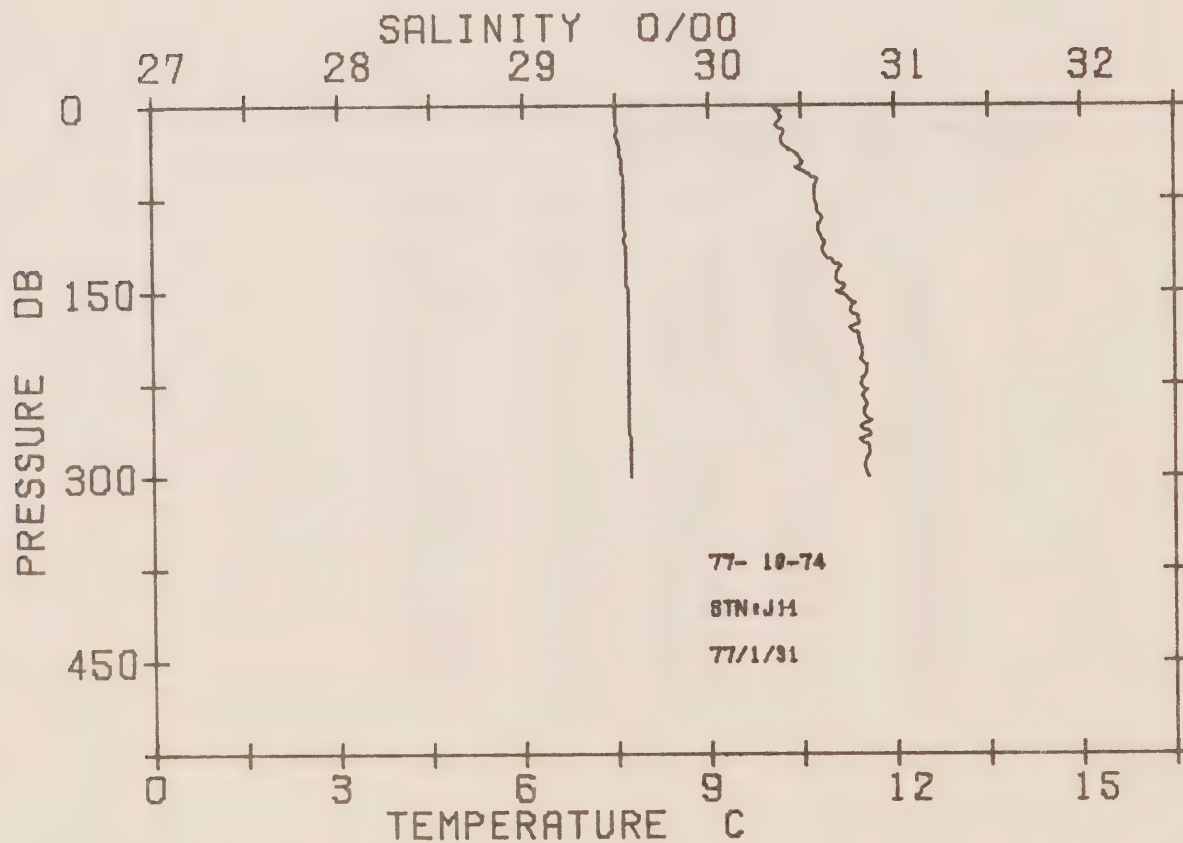
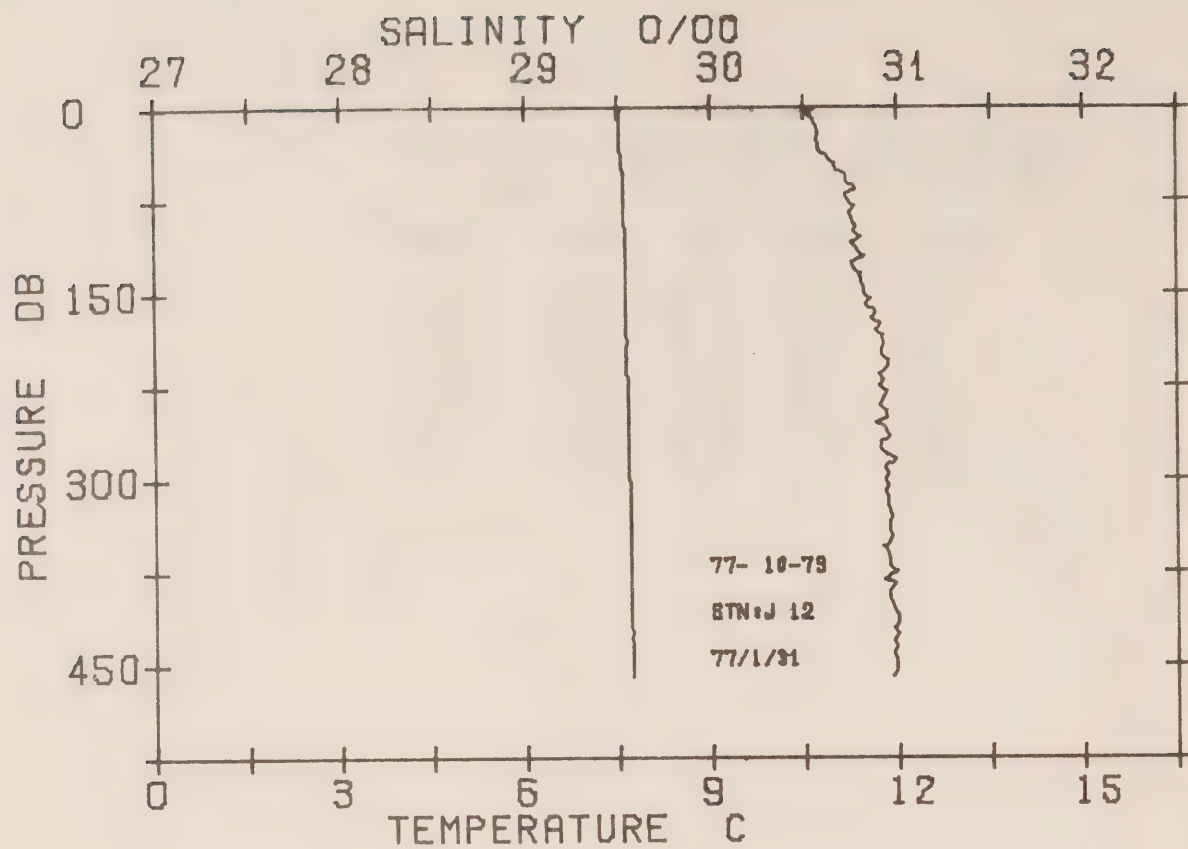


STATION J14A CRUISE 77-10 CONS # 71
 POSITION 50-36.4N 126-50.0W
 DATE 77/ 1/31 TIME 8: 0:59 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.52	30.87	24.13	1476.
10	7.54	30.40	23.75	1475.
20	7.55	30.40	23.76	1476.
30	7.56	30.48	23.82	1476.
50	7.58	30.56	23.87	1476.
75	7.64	30.64	23.93	1477.
100	7.69	30.72	23.99	1478.
125	7.73	30.82	24.06	1478.

STATION J 13 CRUISE 77-10 CONS # 72
 POSITION 50-33.3N 126-47.0W
 DATE 77/ 1/31 TIME 9:53: 4 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.55	30.92	24.16	1476.
10	7.51	30.91	24.16	1476.
20	7.52	30.93	24.18	1476.
30	7.52	31.01	24.23	1476.
50	7.54	31.02	24.24	1477.
75	7.54	31.04	24.26	1477.
100	7.57	31.05	24.26	1478.
125	7.59	31.11	24.30	1478.
150	7.61	31.14	24.33	1479.
175	7.63	31.20	24.37	1479.
200	7.63	31.19	24.36	1480.
225	7.65	31.20	24.37	1480.
250	7.66	31.18	24.35	1481.
275	7.68	31.26	24.41	1481.
300	7.67	31.25	24.40	1482.
325	7.67	31.29	24.43	1482.
350	7.70	31.30	24.44	1483.
375	7.70	31.31	24.44	1483.
400	7.70	31.32	24.46	1483.
425	7.70	31.30	24.44	1484.

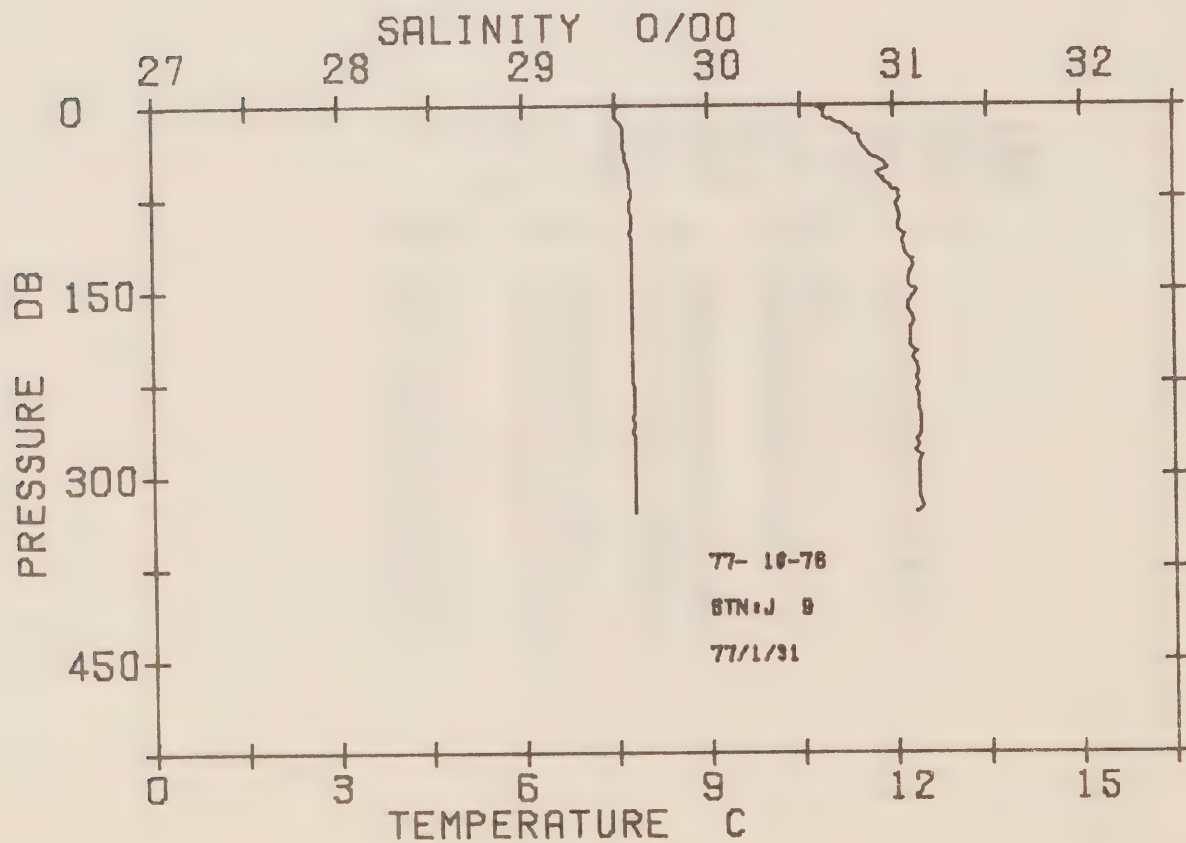
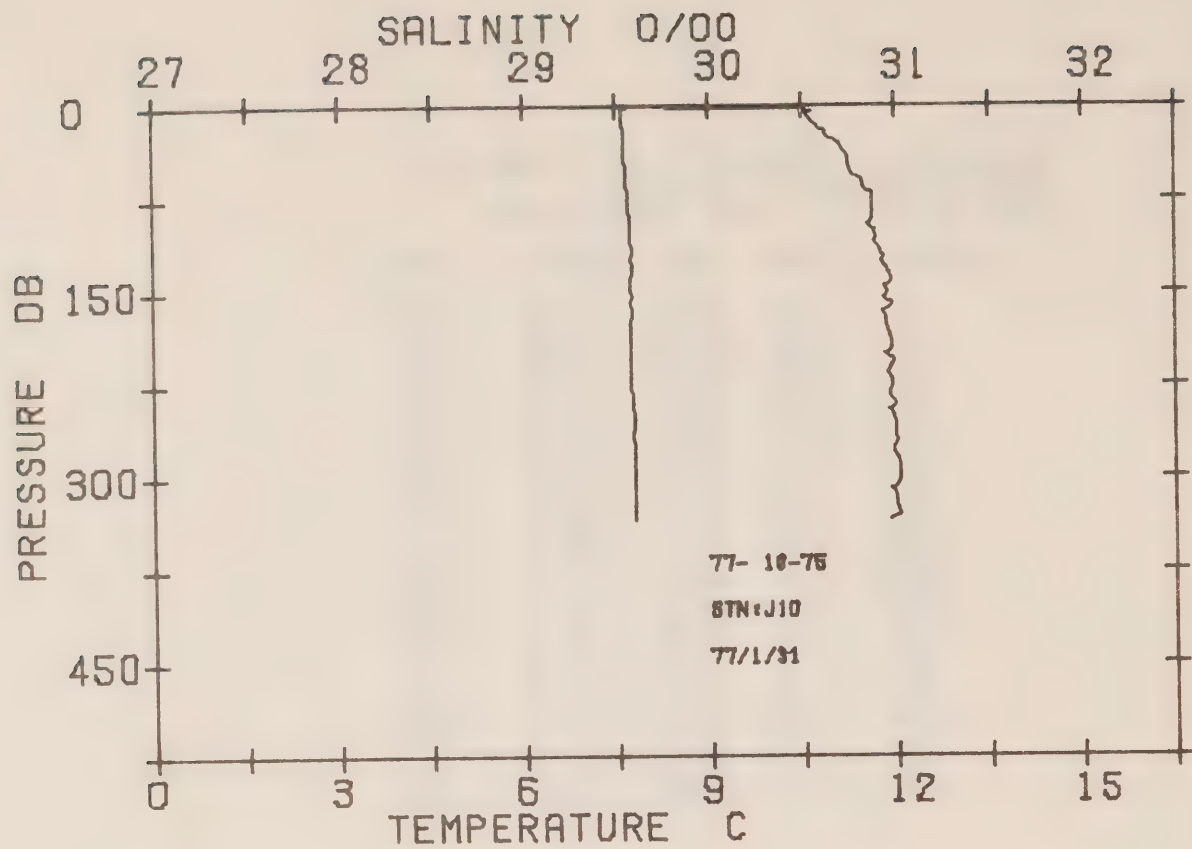


STATION J 12 CRUISE 77-10 CONS # 73
 POSITION 50-31.7N 126-41.0W
 DATE 77/ 1/31 TIME 10:43:26 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.57	30.56	23.88	1475.
10	7.52	30.55	23.88	1475.
20	7.52	30.58	23.90	1476.
30	7.54	30.58	23.90	1476.
50	7.57	30.68	23.97	1476.
75	7.59	30.74	24.02	1477.
100	7.61	30.77	24.04	1478.
125	7.62	30.76	24.03	1478.
150	7.64	30.82	24.07	1479.
175	7.62	30.91	24.14	1479.
200	7.64	30.92	24.15	1479.
225	7.65	30.91	24.14	1480.
250	7.66	30.95	24.17	1480.
275	7.67	30.91	24.14	1481.
300	7.67	30.94	24.16	1481.
325	7.68	30.96	24.18	1482.
350	7.68	30.96	24.18	1482.
375	7.68	30.99	24.20	1483.
400	7.70	30.97	24.18	1483.
425	7.71	31.00	24.20	1484.
450	7.71	30.99	24.20	1484.

STATION J11 CRUISE 77-10 CONS # 74
 POSITION 50-30.0N 126-30.0W
 DATE 77/ 1/31 TIME 11:45: 1 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.50	30.36	23.73	1475.
10	7.50	30.40	23.76	1475.
20	7.52	30.41	23.77	1475.
30	7.52	30.40	23.76	1476.
50	7.59	30.48	23.82	1476.
75	7.62	30.57	23.88	1477.
100	7.64	30.59	23.90	1477.
125	7.67	30.67	23.95	1478.
150	7.68	30.70	23.98	1479.
175	7.69	30.81	24.06	1479.
200	7.69	30.82	24.06	1480.
225	7.68	30.81	24.06	1480.
250	7.70	30.83	24.07	1480.
275	7.72	30.85	24.09	1481.
300	7.73	30.85	24.08	1481.

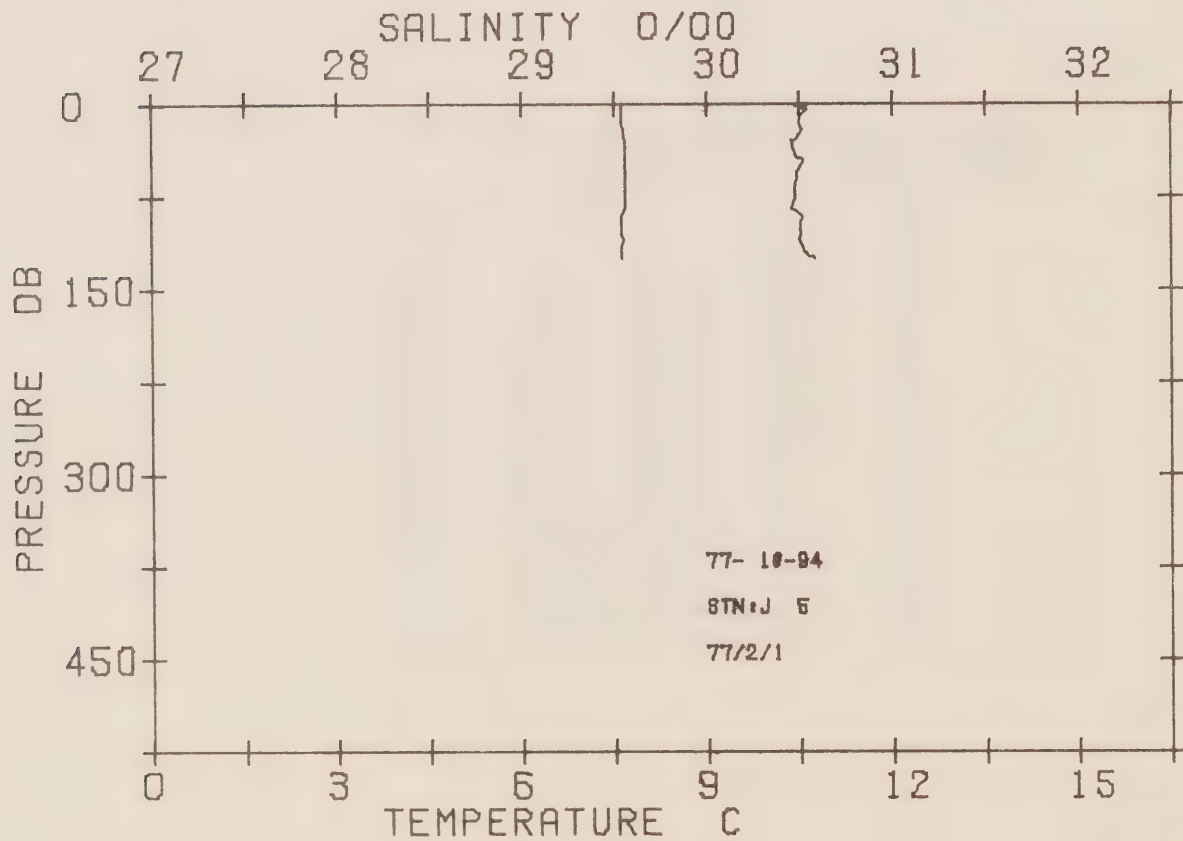
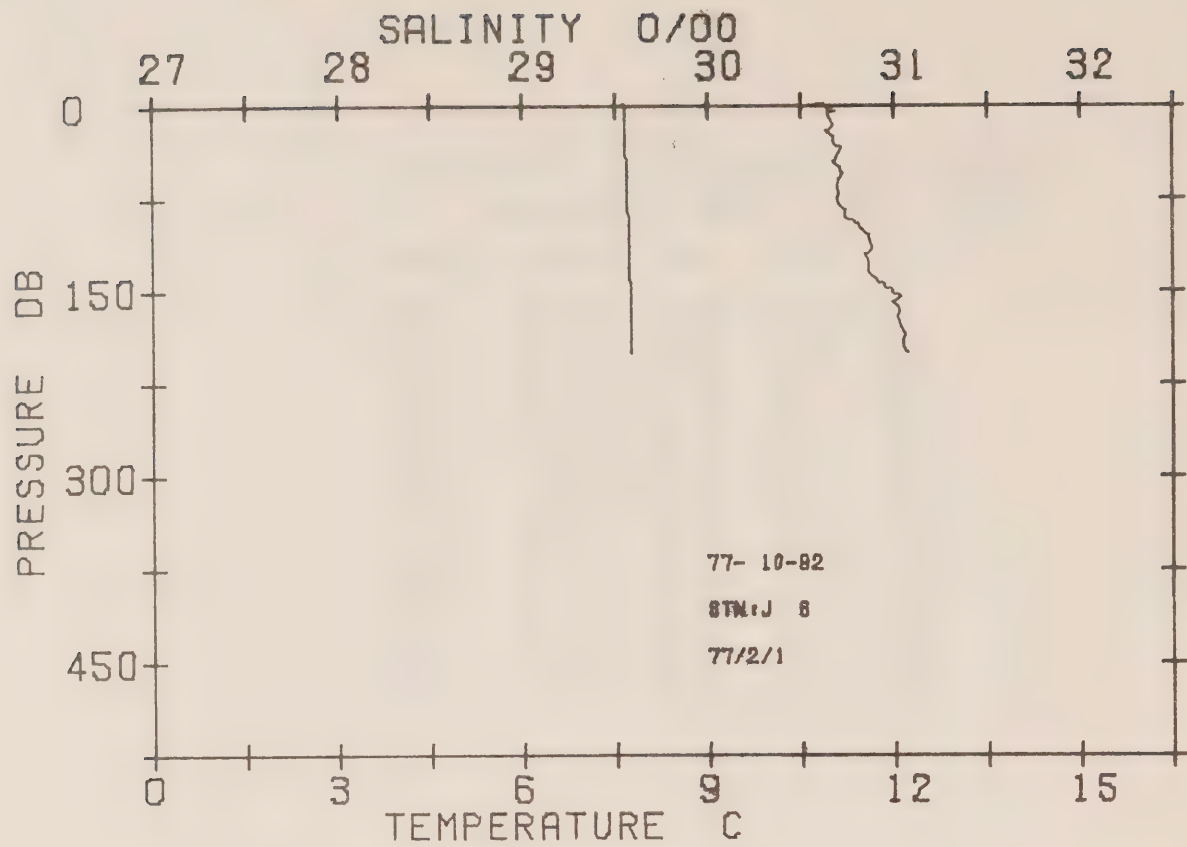


STATION J10 CRUISE 77-10 CONS # 75
 POSITION 50-29.7N 126-18.7W
 DATE 77/ 1/31 TIME 12:49:43 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.65	30.45	23.78	1476.
10	7.59	30.54	23.86	1476.
20	7.61	30.62	23.92	1476.
30	7.62	30.71	23.99	1476.
50	7.65	30.76	24.03	1477.
75	7.69	30.88	24.11	1478.
100	7.71	30.89	24.12	1478.
125	7.73	30.93	24.15	1479.
150	7.73	30.96	24.17	1479.
175	7.73	30.95	24.16	1479.
200	7.73	30.95	24.16	1480.
225	7.73	30.98	24.19	1480.
250	7.77	30.99	24.19	1481.
275	7.77	30.99	24.19	1481.
300	7.79	31.02	24.21	1482.
325	7.79	31.01	24.20	1482.

STATION J 9 CRUISE 77-10 CONS # 76
 POSITION 50-28.5N 126-10.7W
 DATE 77/ 1/31 TIME 17:49:14 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.49	30.56	23.89	1475.
10	7.51	30.63	23.94	1476.
20	7.61	30.77	24.04	1476.
30	7.64	30.82	24.07	1477.
50	7.68	30.97	24.18	1477.
75	7.74	31.03	24.23	1478.
100	7.74	31.02	24.22	1478.
125	7.74	31.09	24.27	1479.
150	7.75	31.11	24.28	1479.
175	7.76	31.10	24.28	1480.
200	7.76	31.11	24.28	1480.
225	7.76	31.12	24.29	1481.
250	7.77	31.14	24.30	1481.
275	7.78	31.12	24.29	1482.
300	7.78	31.12	24.29	1482.
325	7.79	31.15	24.31	1482.

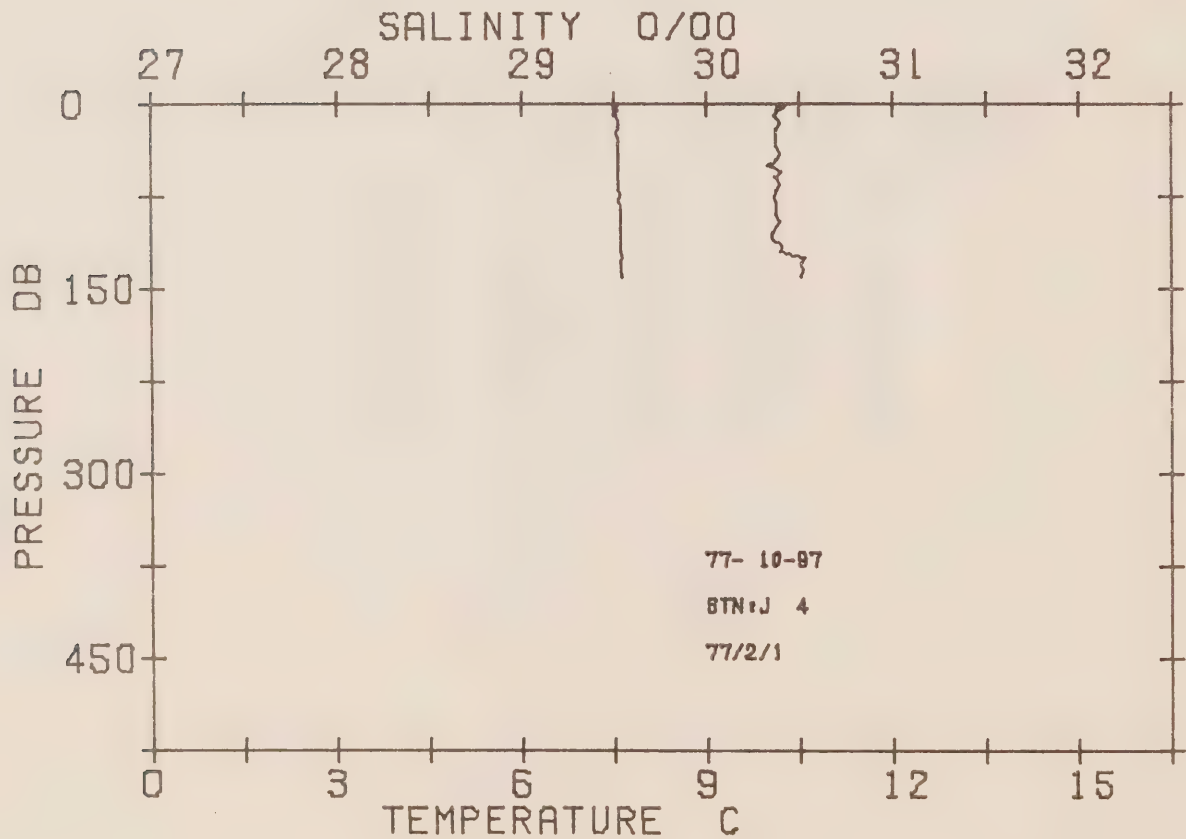
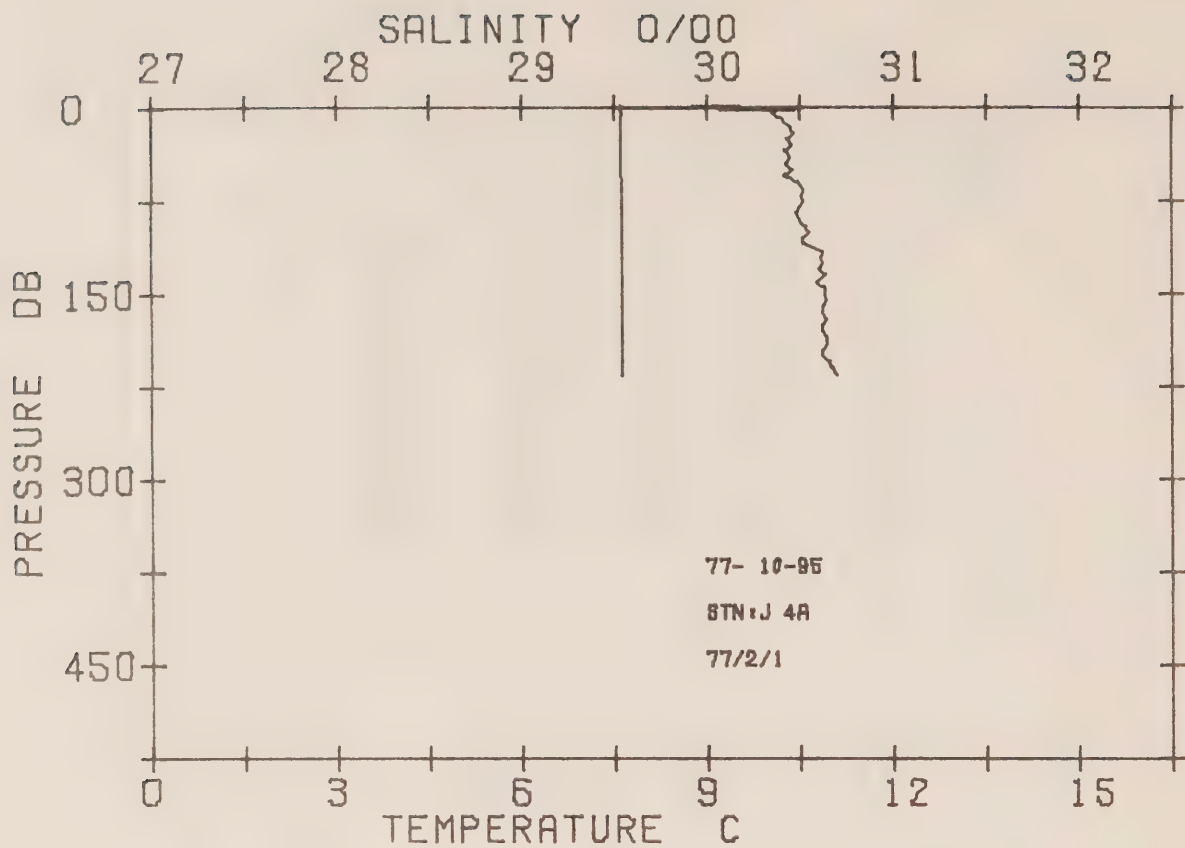


STATION J 6 CRUISE 77-10 CONS # 92
 POSITION 50-26.4N 126- .7W
 DATE 77/ 2/ 1 TIME 10:53:49 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.65	30.62	23.92	1476.
10	7.65	30.66	23.95	1476.
20	7.65	30.65	23.94	1476.
30	7.66	30.68	23.96	1476.
50	7.69	30.71	23.98	1477.
75	7.70	30.70	23.97	1477.
100	7.72	30.83	24.07	1478.
125	7.72	30.86	24.09	1479.
150	7.74	30.99	24.19	1479.
175	7.75	31.03	24.22	1480.
200	7.76	31.07	24.25	1480.

STATION J 5 CRUISE 77-10 CONS # 94
 POSITION 50-24.5N 125-56.8W
 DATE 77/ 2/ 1 TIME 11:44:54 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.64	30.50	23.82	1476.
10	7.64	30.51	23.83	1476.
20	7.65	30.52	23.84	1476.
30	7.68	30.47	23.79	1476.
50	7.68	30.51	23.82	1477.
75	7.68	30.48	23.80	1477.
100	7.64	30.51	23.83	1477.
125	7.64	30.58	23.88	1478.

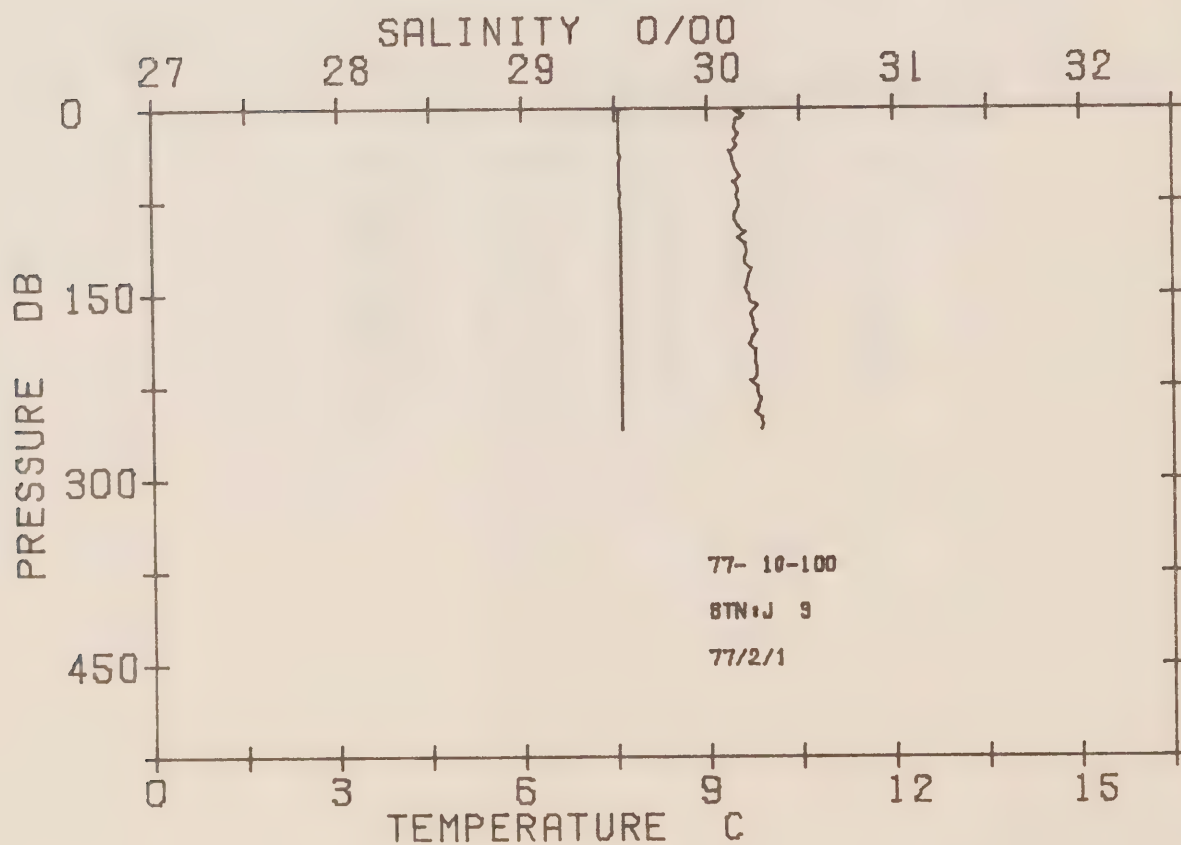
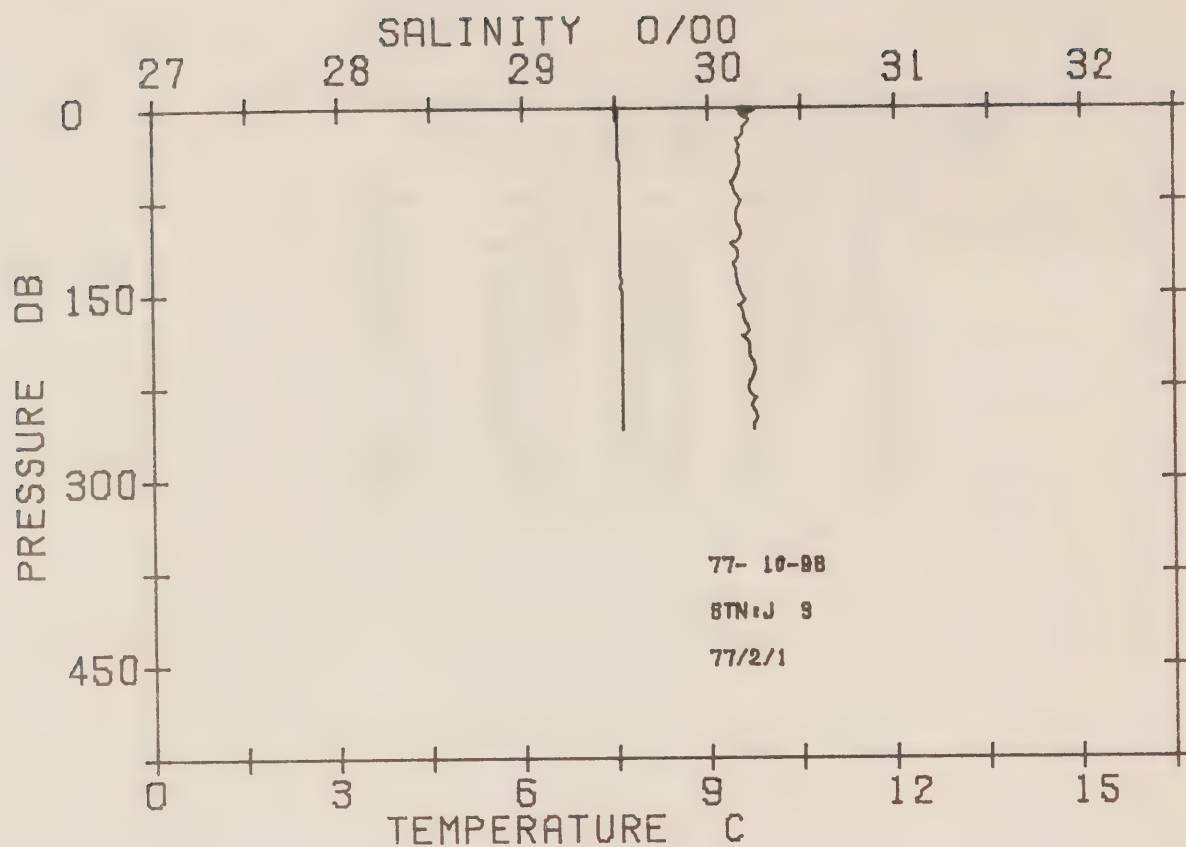


STATION J 4A CRUISE 77-10 CONS # 95
 POSITION 50-23.5N 125-53.4W
 DATE 77/ 2/ 1 TIME 12: 7: 4 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.60	30.26	23.64	1475.
10	7.59	30.41	23.75	1476.
20	7.59	30.47	23.80	1476.
30	7.60	30.46	23.80	1476.
50	7.60	30.46	23.79	1476.
75	7.62	30.52	23.84	1477.
100	7.61	30.55	23.87	1477.
125	7.62	30.62	23.92	1478.
150	7.61	30.64	23.93	1478.
175	7.61	30.62	23.92	1479.
200	7.62	30.63	23.93	1479.

STATION J 4 CRUISE 77-10 CONS # 97
 POSITION 50-22.7N 125-47.0W
 DATE 77/ 2/ 1 TIME 13:10:41 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.55	30.41	23.76	1475.
10	7.54	30.36	23.72	1475.
20	7.55	30.38	23.74	1475.
30	7.55	30.38	23.74	1476.
50	7.56	30.33	23.70	1476.
75	7.58	30.36	23.72	1476.
100	7.58	30.37	23.73	1477.
125	7.61	30.53	23.85	1478.

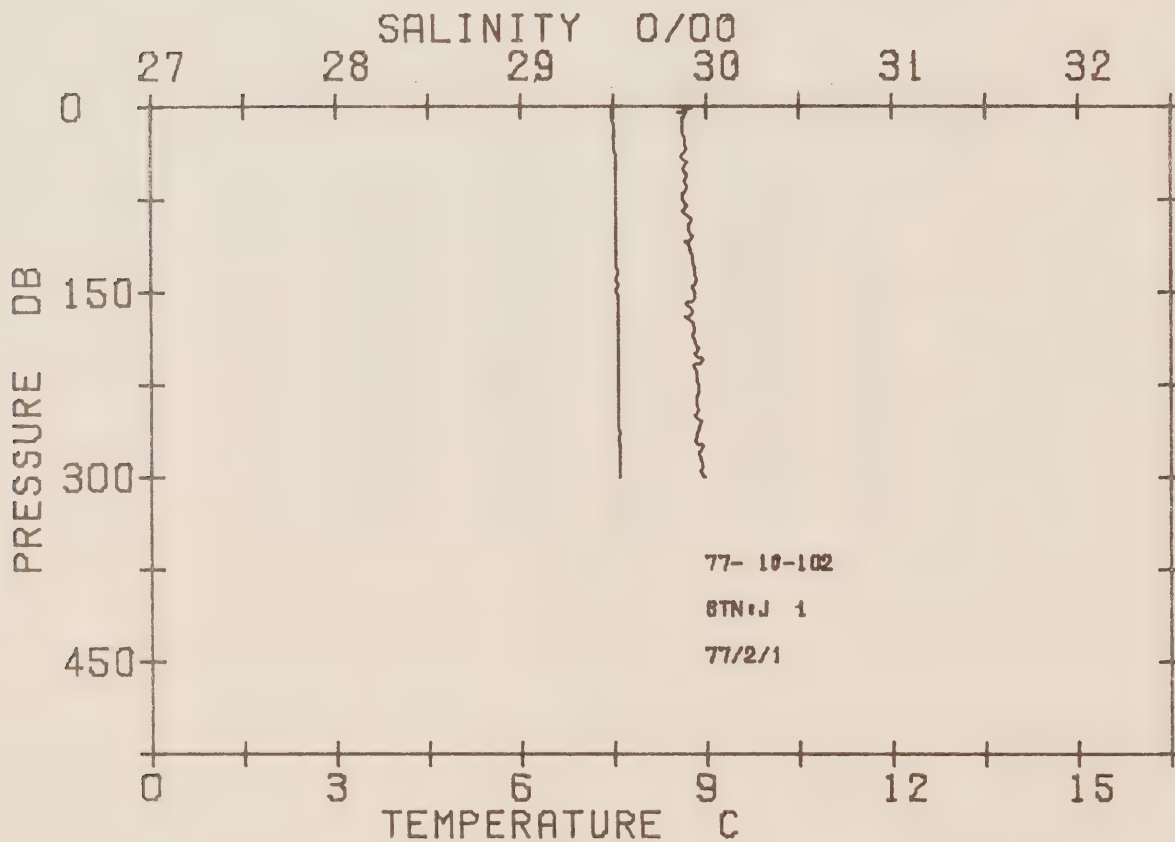
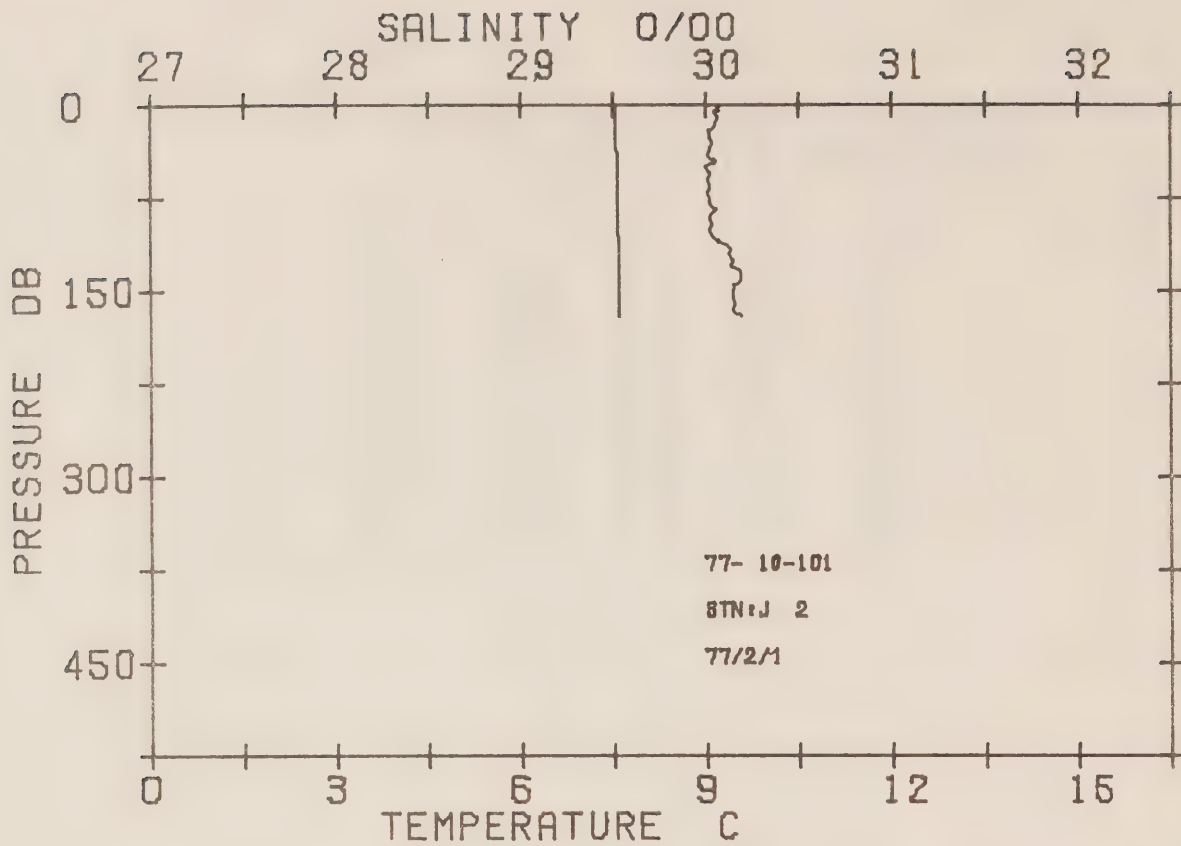


STATION J 3 CRUISE 77-10 CONS # 98
 POSITION 50-22.2N 125-39.0W
 DATE 77/ 2/ 1 TIME 13:42:50 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.52	30.20	23.61	1475.
10	7.52	30.22	23.61	1475.
20	7.53	30.19	23.59	1475.
30	7.53	30.17	23.58	1475.
50	7.55	30.16	23.57	1476.
75	7.56	30.18	23.58	1476.
100	7.56	30.18	23.58	1477.
125	7.57	30.14	23.55	1477.
150	7.58	30.18	23.58	1477.
175	7.58	30.21	23.60	1478.
200	7.60	30.22	23.61	1478.
225	7.59	30.21	23.60	1479.
250	7.60	30.26	23.64	1479.

STATION J 3 CRUISE 77-10 CONS #100
 POSITION 50-22.2N 125-39.0W
 DATE 77/ 2/ 1 TIME 13:55:15 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.56	30.18	23.58	1475.
10	7.56	30.16	23.57	1475.
20	7.57	30.17	23.57	1475.
30	7.57	30.16	23.56	1475.
50	7.57	30.16	23.57	1476.
75	7.57	30.17	23.57	1476.
100	7.58	30.20	23.60	1477.
125	7.59	30.20	23.60	1477.
150	7.59	30.22	23.61	1478.
175	7.59	30.24	23.63	1478.
200	7.60	30.25	23.63	1478.
225	7.60	30.26	23.64	1479.
250	7.60	30.28	23.65	1479.

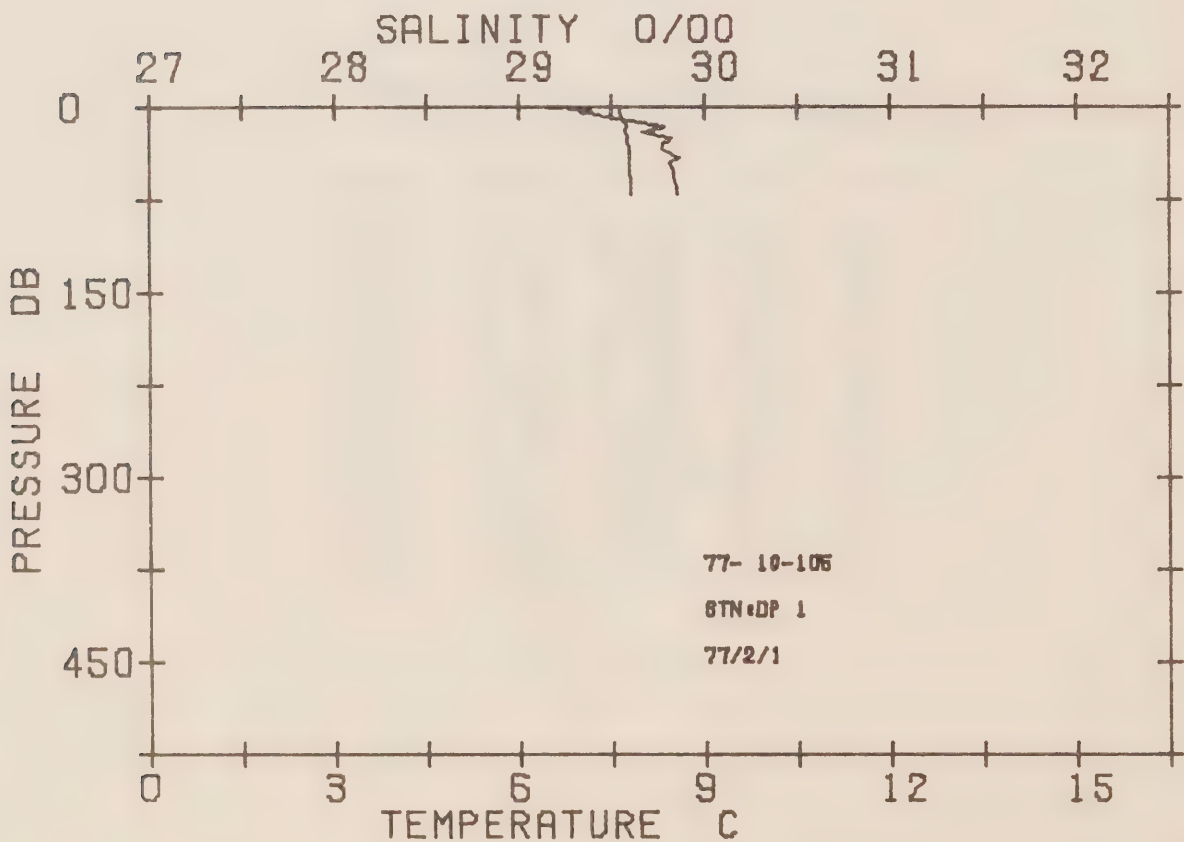
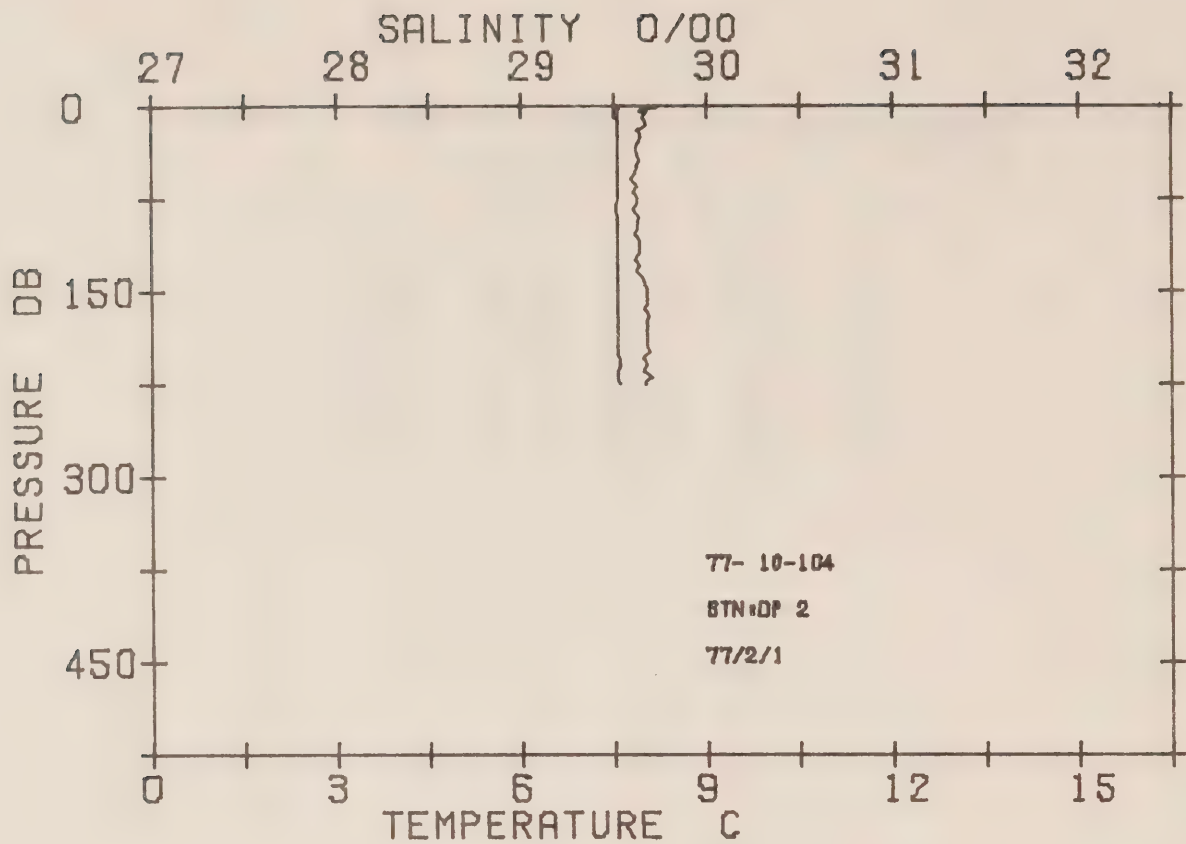


STATION J 2 CRUISE 77-10 CONS #101
 POSITION 50-22.2N 125-33.5W
 DATE 77/ 2/ 1 TIME 14:47:43 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.52	30.07	23.50	1475.
10	7.52	30.06	23.49	1475.
20	7.54	30.02	23.46	1475.
30	7.54	30.03	23.47	1475.
50	7.56	30.00	23.44	1476.
75	7.56	30.02	23.46	1476.
100	7.57	30.02	23.46	1476.
125	7.59	30.15	23.55	1477.
150	7.59	30.15	23.55	1477.

STATION J 1 CRUISE 77-10 CONS #102
 POSITION 50-20.7N 125-25.5W
 DATE 77/ 2/ 1 TIME 16:44:20 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.47	29.85	23.34	1474.
10	7.48	29.88	23.36	1474.
20	7.50	29.87	23.35	1475.
30	7.51	29.89	23.36	1475.
50	7.53	29.87	23.34	1475.
75	7.53	29.88	23.35	1476.
100	7.54	29.91	23.37	1476.
125	7.54	29.93	23.39	1477.
150	7.54	29.94	23.39	1477.
175	7.55	29.93	23.39	1477.
200	7.56	29.94	23.39	1478.
225	7.56	29.96	23.41	1478.
250	7.57	29.94	23.39	1479.
275	7.58	29.98	23.42	1479.
300	7.58	29.99	23.43	1480.

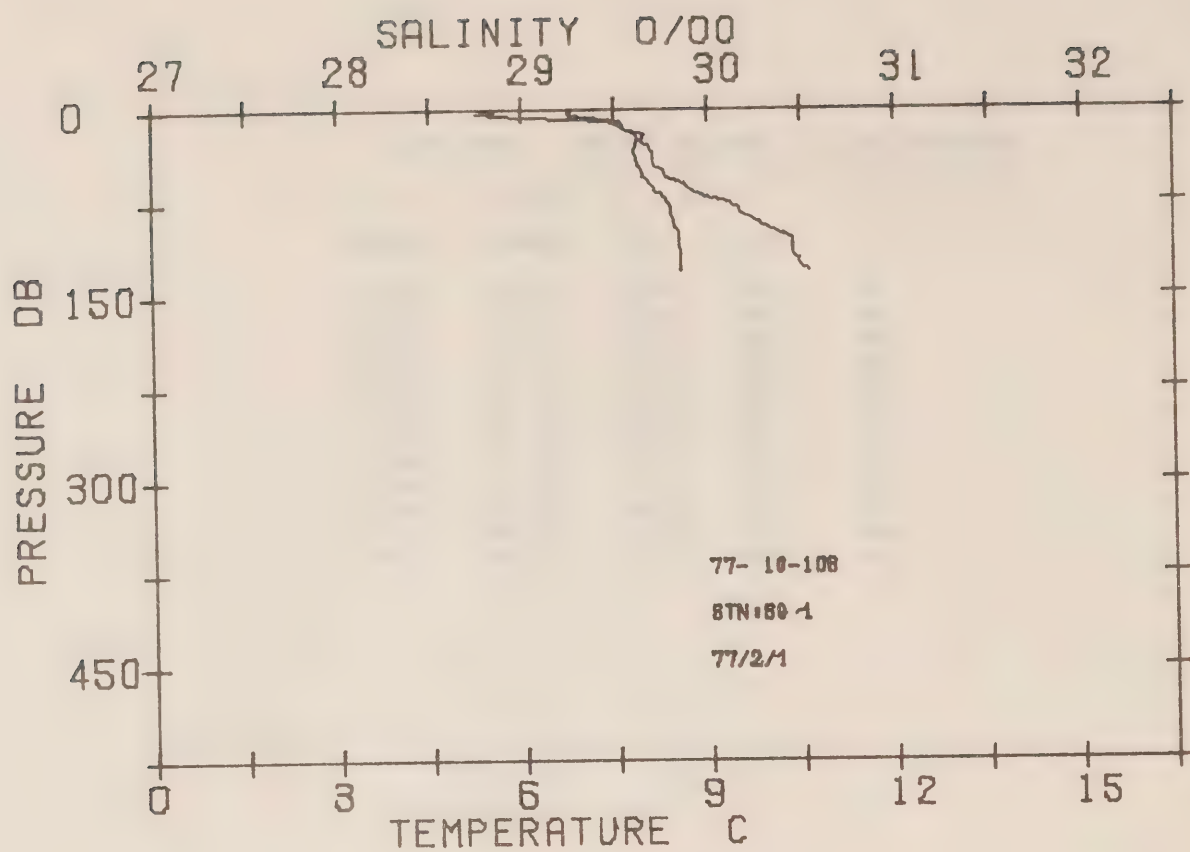


STATION DP 2 CRUISE 77-10 CONS #104
 POSITION 50-14.7N 125-23.0W
 DATE 77/ 2/ 1 TIME 18: 2:51 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.56	29.73	23.23	1474.
10	7.55	29.66	23.17	1474.
20	7.56	29.63	23.15	1475.
30	7.56	29.64	23.16	1475.
50	7.56	29.62	23.14	1475.
75	7.56	29.62	23.14	1475.
100	7.55	29.62	23.15	1476.
125	7.55	29.61	23.14	1476.
150	7.56	29.68	23.19	1477.
175	7.57	29.68	23.19	1477.
200	7.57	29.69	23.20	1478.
225	7.58	29.67	23.18	1478.

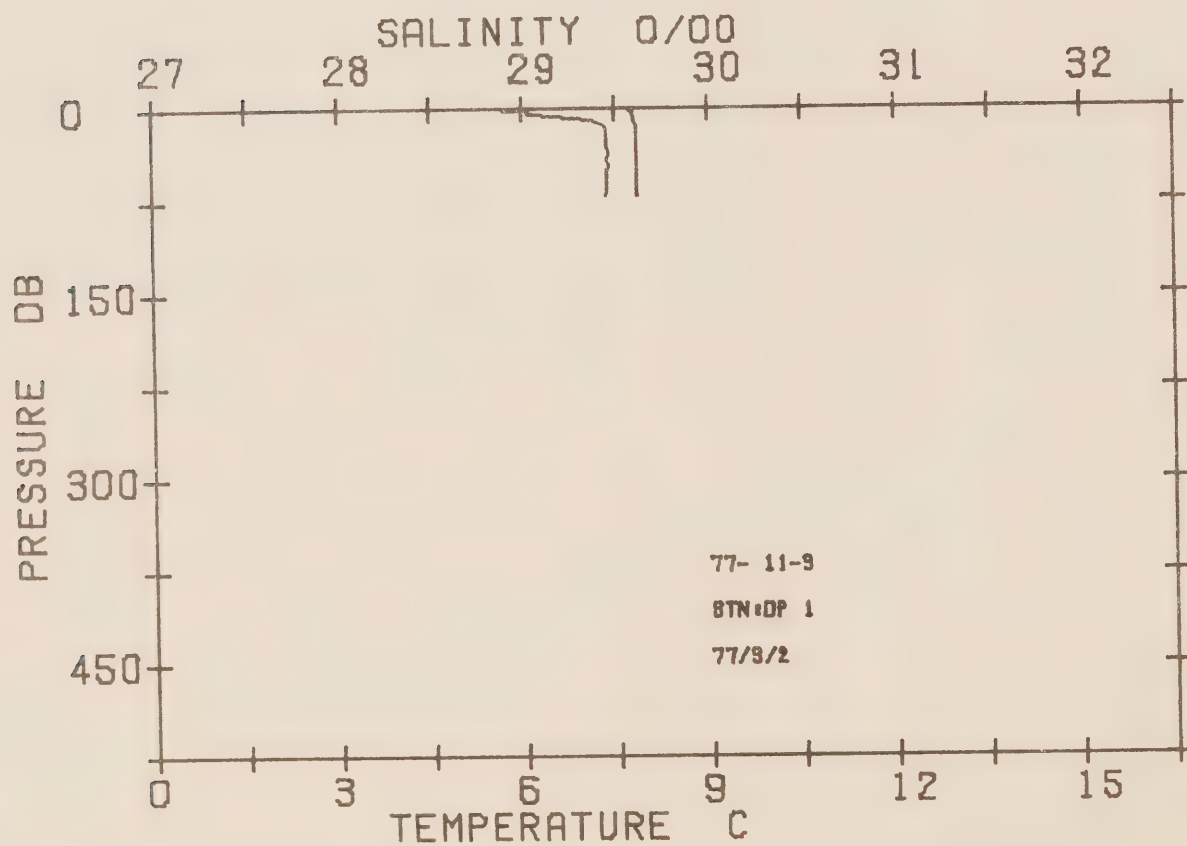
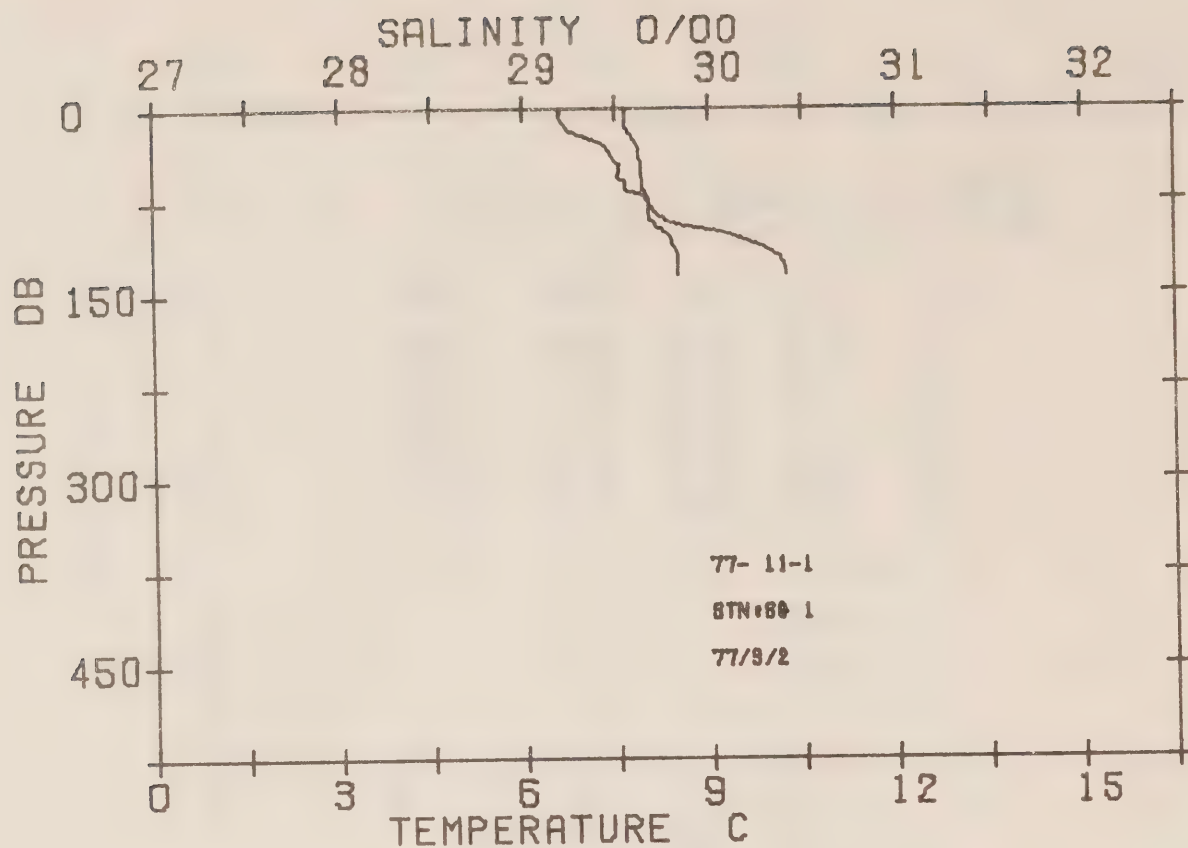
STATION DP 1 CRUISE 77-10 CONS #105
 POSITION 50- 5.1N 125-16.4W
 DATE 77/ 2/ 1 TIME 19:21: 2 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.78	29.20	22.79	1475.
10	7.67	29.54	23.07	1475.
20	7.71	29.67	23.16	1475.
30	7.76	29.78	23.24	1476.
50	7.79	29.83	23.27	1476.



STATION SG 1 CRUISE 77-10 CONS #106
POSITION 49-55.0N 125- 5.5W
DATE 77/ 2/ 1 TIME 20:37:17 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	6.79	28.85	22.64	1470.
10	7.58	29.48	23.03	1474.
20	7.83	29.67	23.14	1476.
30	7.83	29.69	23.16	1476.
50	7.93	29.77	23.21	1477.
75	8.34	30.13	23.43	1479.
100	8.52	30.41	23.63	1481.
125	8.56	30.50	23.69	1481.

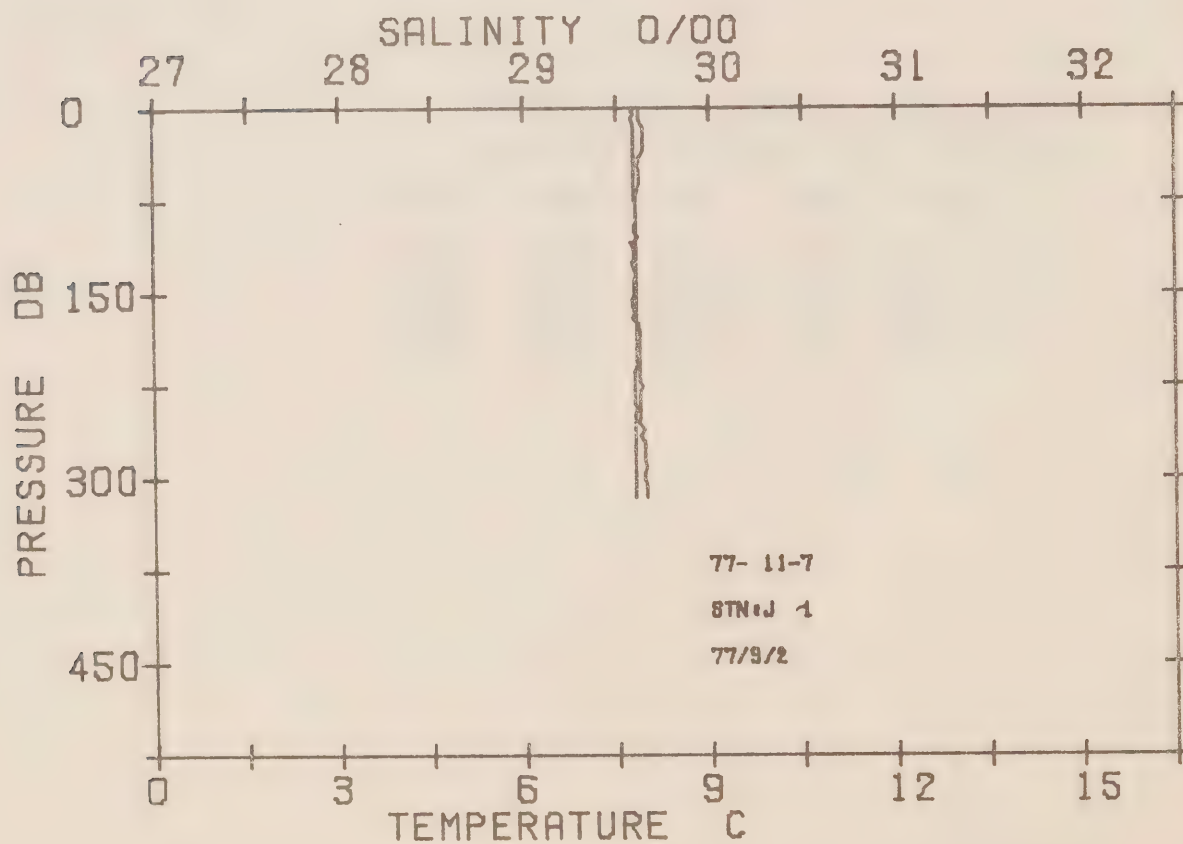
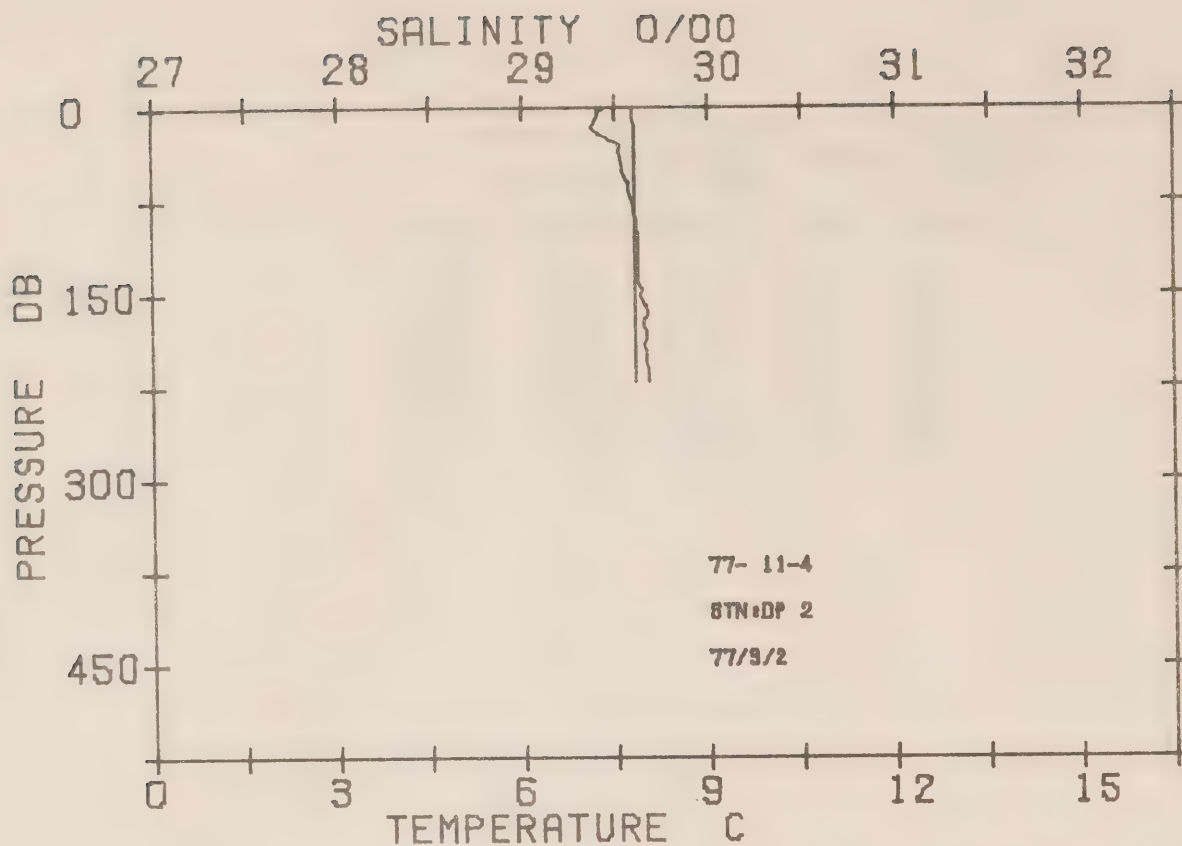


STATION SG 1 CRUISE 77-11 CONS # 1
 POSITION 49-55.0N 125- 5.5W
 DATE 77/ 3/ 2 TIME 15:33:24 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.66	29.21	22.81	1474.
10	7.67	29.21	22.81	1474.
20	7.72	29.28	22.86	1475.
30	7.85	29.45	22.97	1476.
50	7.91	29.52	23.01	1476.
75	8.02	29.68	23.13	1477.
100	8.29	30.07	23.39	1479.
125	8.50	30.41	23.63	1481.

STATION DP 1 CRUISE 77-11 CONS # 3
 POSITION 50- 5.1N 125-16.4W
 DATE 77/ 3/ 2 TIME 17: 5:41 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.77	28.97	22.60	1474.
10	7.82	29.39	22.93	1475.
20	7.84	29.46	22.98	1475.
30	7.83	29.46	22.98	1476.
50	7.84	29.46	22.98	1476.

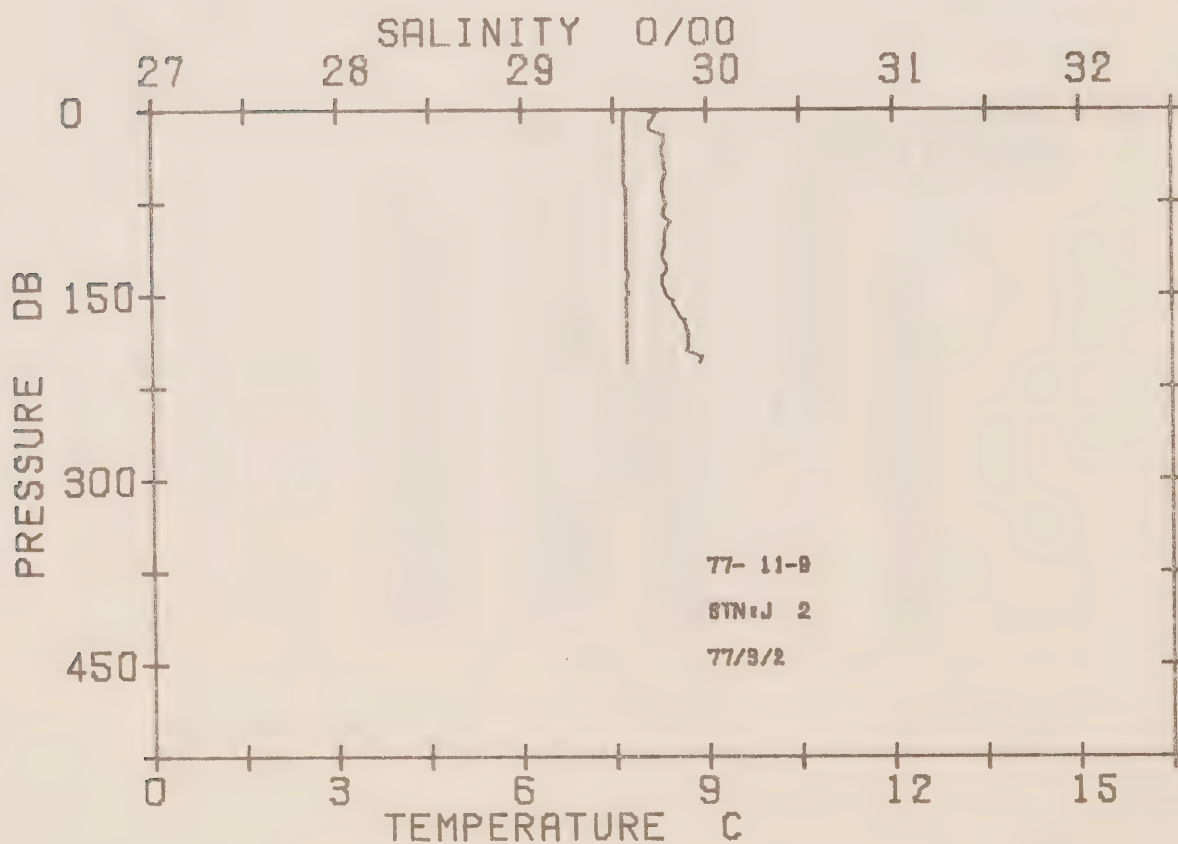
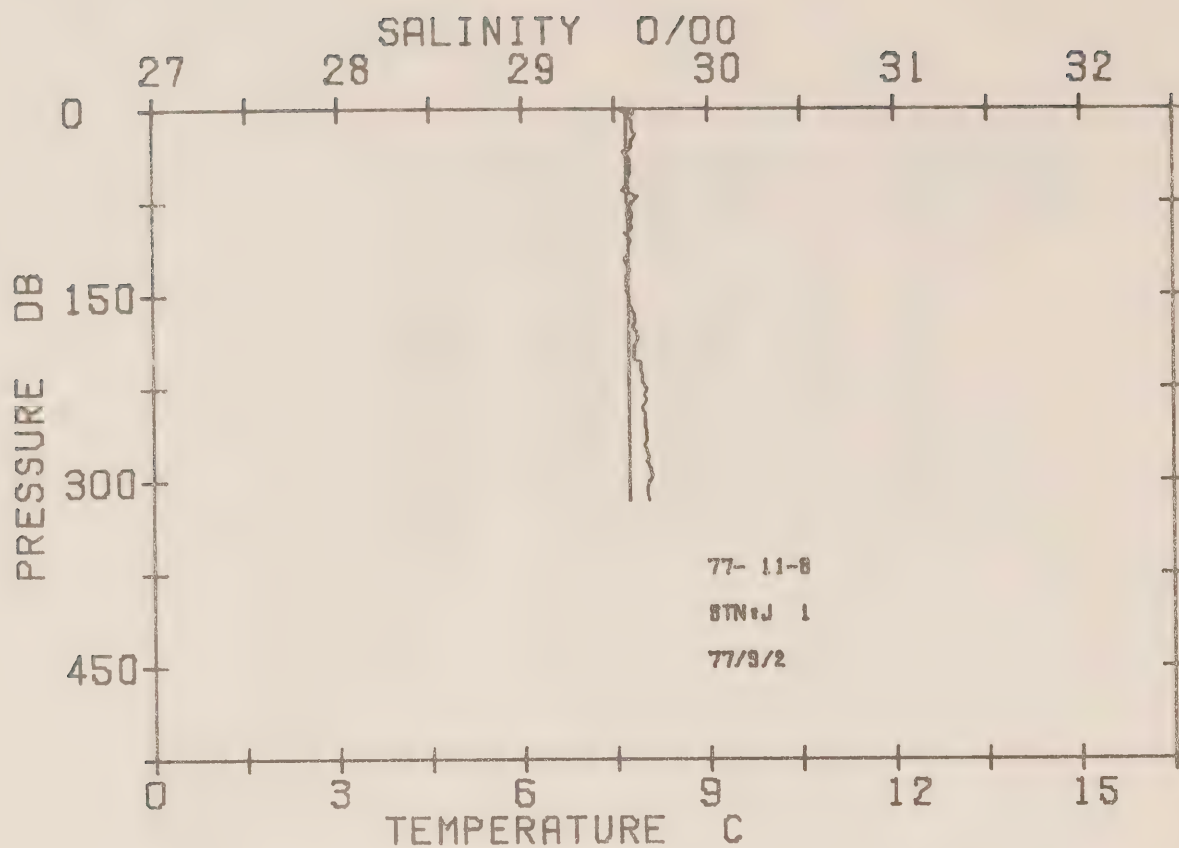


STATION DP 2 CRUISE 77-11 CONS # 4
 POSITION 50-14.7N 125-23.0W
 DATE 77/ 3/ 2 TIME 18:24:45 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.79	29.43	22.97	1475.
10	7.79	29.40	22.94	1475.
20	7.80	29.41	22.95	1475.
30	7.80	29.53	23.04	1476.
50	7.81	29.54	23.05	1476.
75	7.81	29.59	23.09	1476.
100	7.81	29.62	23.11	1477.
125	7.81	29.63	23.12	1477.
150	7.81	29.64	23.13	1478.
175	7.81	29.66	23.14	1478.
200	7.80	29.67	23.15	1478.

STATION J 1 CRUISE 77-11 CONS # 7
 POSITION 50-20.7N 125-25.5W
 DATE 77/ 3/ 2 TIME 21:37:13 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.76	29.63	23.12	1475.
10	7.76	29.62	23.12	1475.
20	7.77	29.65	23.14	1475.
30	7.77	29.65	23.14	1476.
50	7.78	29.62	23.11	1476.
75	7.79	29.60	23.10	1476.
100	7.80	29.59	23.09	1477.
125	7.81	29.58	23.08	1477.
150	7.81	29.59	23.09	1478.
175	7.81	29.61	23.10	1478.
200	7.80	29.63	23.12	1478.
225	7.79	29.64	23.12	1479.
250	7.79	29.62	23.11	1479.
275	7.79	29.65	23.14	1480.
300	7.78	29.65	23.14	1480.

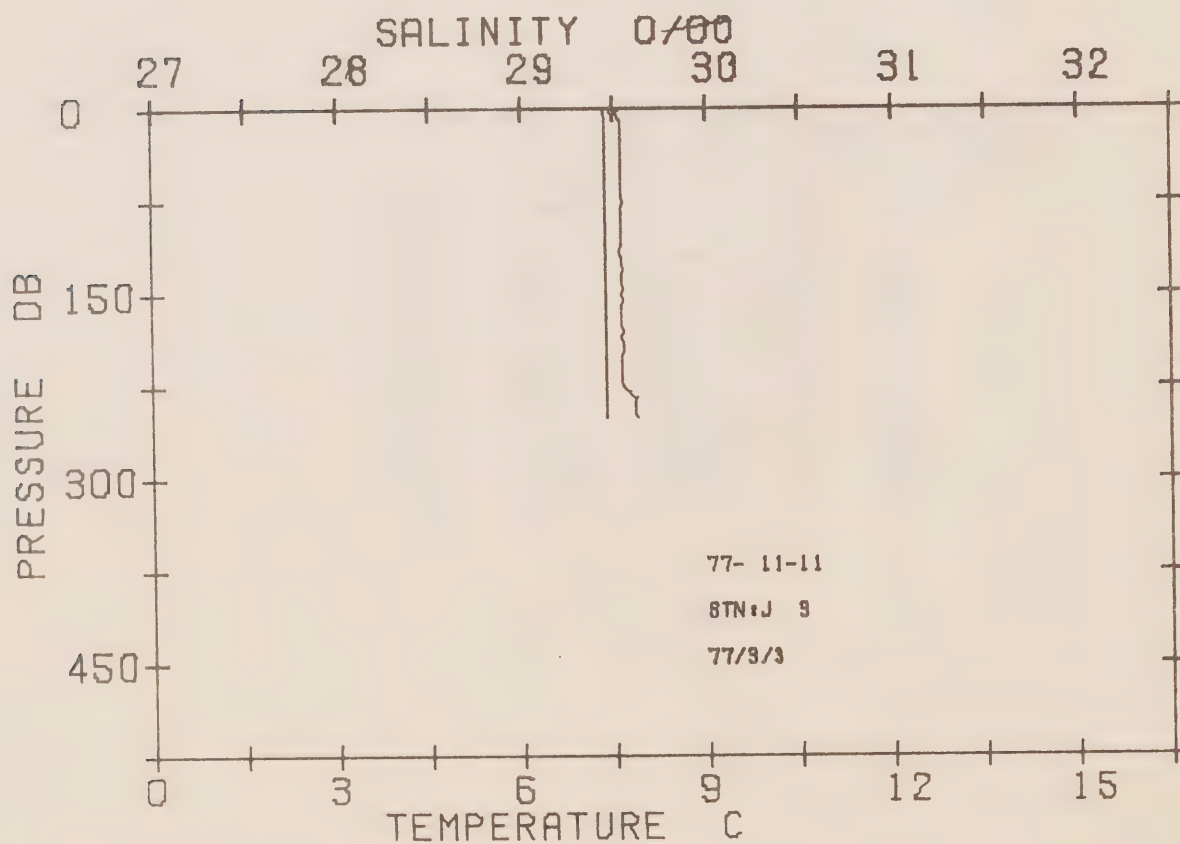
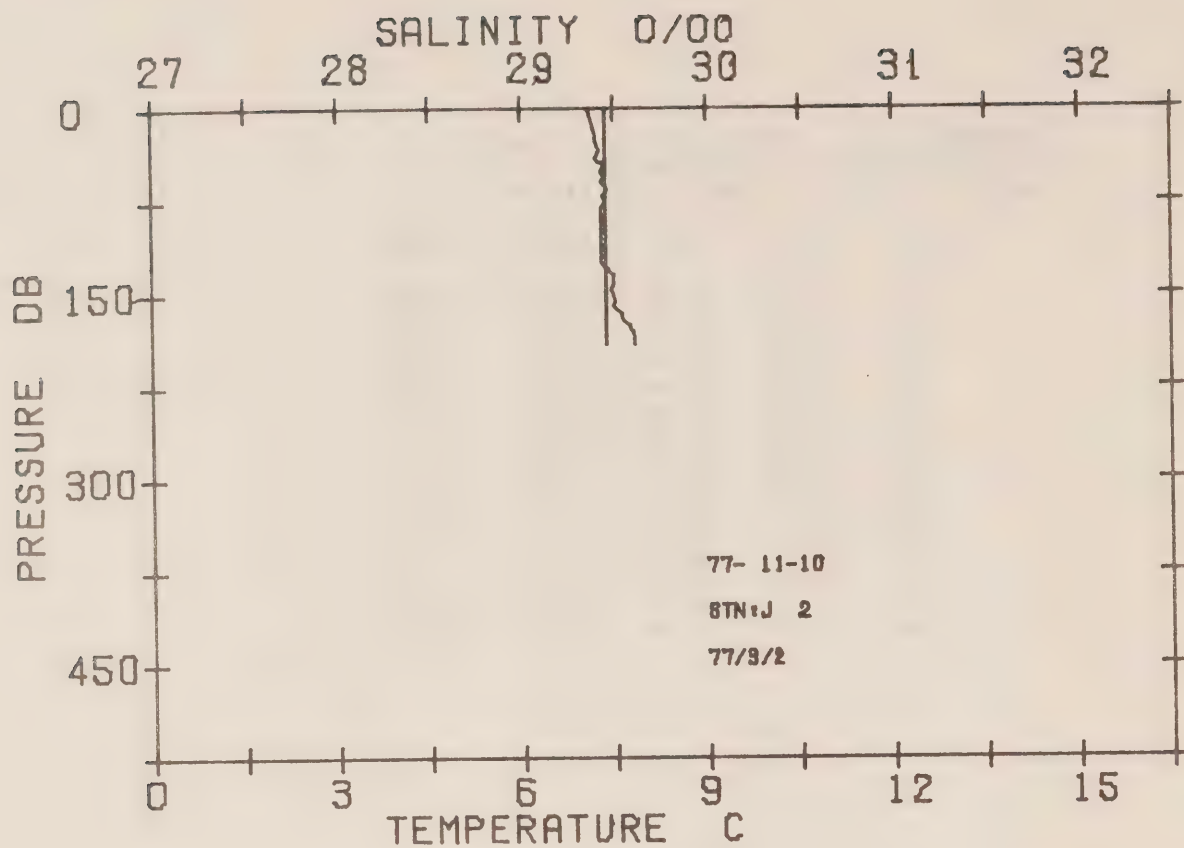


STATION J 1 CRUISE 77-11 CONS # 8
 POSITION 50-20.7N 125-25.5W
 DATE 77/ 3/ 2 TIME 22:13:44 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.67	29.59	23.10	1475.
10	7.69	29.59	23.10	1475.
20	7.68	29.61	23.12	1475.
30	7.69	29.59	23.11	1475.
50	7.70	29.58	23.09	1476.
75	7.70	29.59	23.10	1476.
100	7.72	29.56	23.08	1476.
125	7.73	29.56	23.08	1477.
150	7.73	29.57	23.08	1477.
175	7.73	29.59	23.10	1478.
200	7.73	29.59	23.10	1478.
225	7.72	29.67	23.16	1479.
250	7.72	29.66	23.15	1479.
275	7.72	29.67	23.16	1479.
300	7.72	29.68	23.17	1480.

STATION J 2 CRUISE 77-11 CONS # 9
 POSITION 50-22.2N 125-33.5W
 DATE 77/ 3/ 2 TIME 23: 6:41 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.66	29.72	23.21	1475.
10	7.66	29.70	23.20	1475.
20	7.65	29.77	23.25	1475.
30	7.65	29.76	23.24	1475.
50	7.67	29.78	23.25	1476.
75	7.69	29.78	23.25	1476.
100	7.70	29.77	23.24	1477.
125	7.70	29.78	23.25	1477.
150	7.71	29.78	23.25	1477.
175	7.69	29.89	23.34	1478.
200	7.69	29.97	23.40	1478.

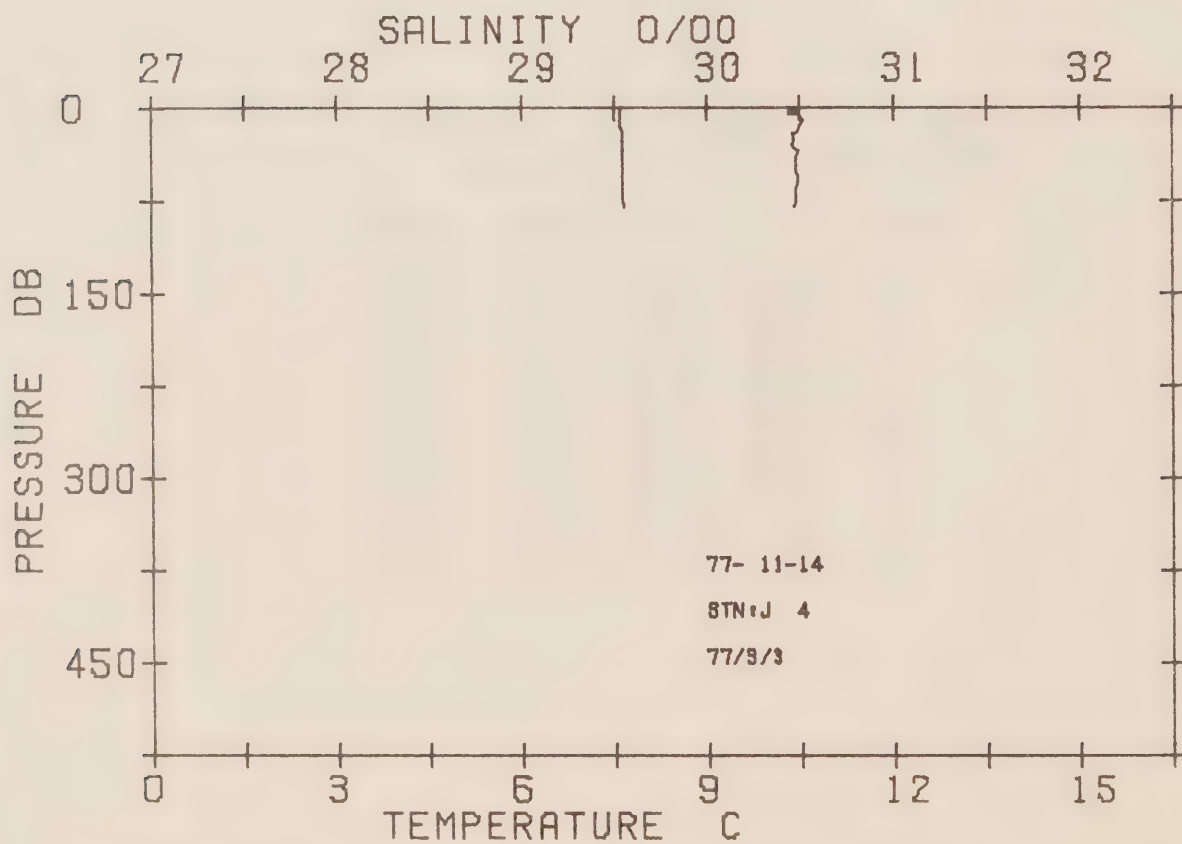
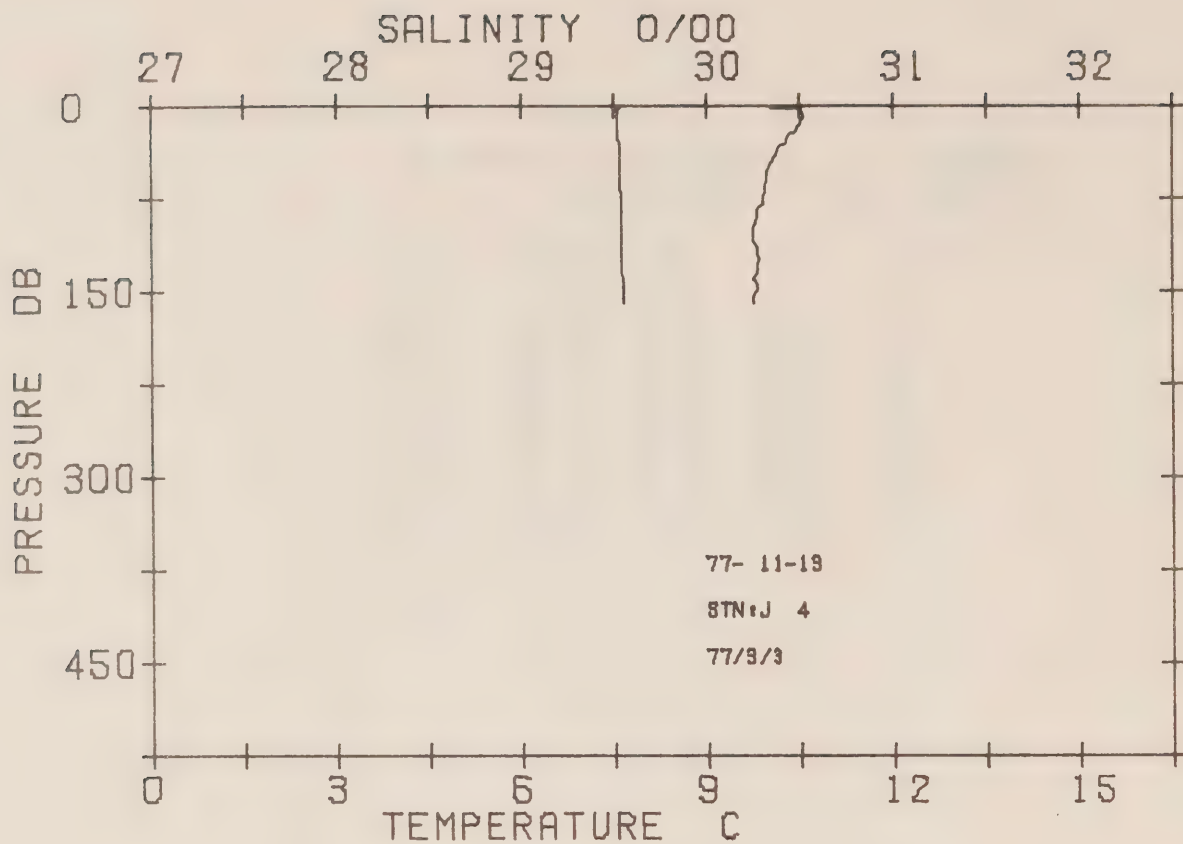


STATION J 2 CRUISE 77-11 CONS # 10
 POSITION 50-22.2N 125-33.5W
 DATE 77/ 3/ 2 TIME 23:25: 8 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.37	29.36	22.96	1473.
10	7.37	29.39	22.99	1473.
20	7.38	29.41	23.00	1474.
30	7.38	29.42	23.01	1474.
50	7.38	29.44	23.03	1474.
75	7.38	29.46	23.04	1475.
100	7.38	29.44	23.02	1475.
125	7.39	29.44	23.02	1475.
150	7.38	29.50	23.07	1476.
175	7.37	29.53	23.13	1476.

STATION J 3 CRUISE 77-11 CONS # 11
 POSITION 50-22.2N 125-39.0W
 DATE 77/ 3/ 3 TIME 0: 6:27 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.35	29.53	23.10	1473.
10	7.36	29.54	23.10	1473.
20	7.36	29.54	23.11	1474.
30	7.36	29.54	23.10	1474.
50	7.36	29.54	23.11	1474.
75	7.36	29.55	23.11	1475.
100	7.36	29.54	23.10	1475.
125	7.36	29.54	23.11	1475.
150	7.36	29.54	23.11	1476.
175	7.37	29.54	23.11	1476.
200	7.37	29.54	23.11	1477.
225	7.37	29.55	23.11	1477.
250	7.36	29.63	23.18	1478.

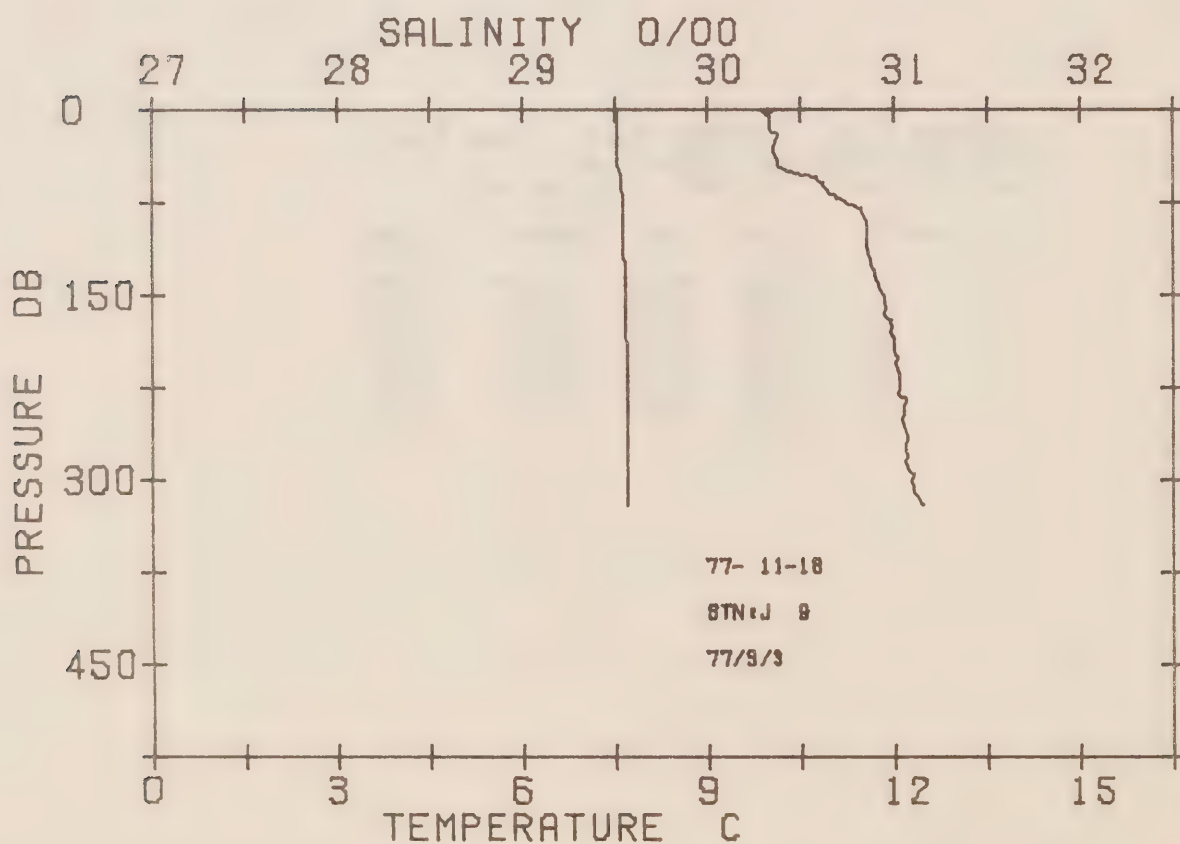
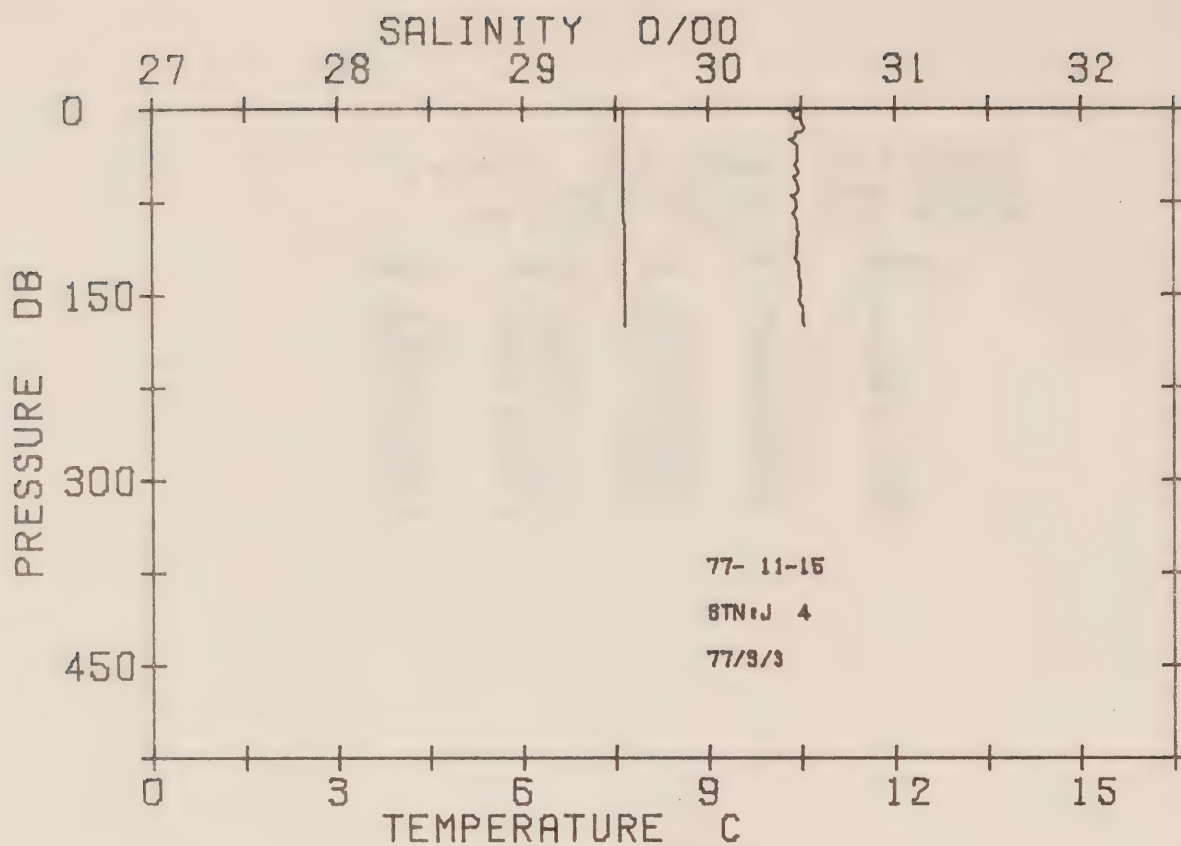


STATION J 4 CRUISE 77-11 CONS # 13
 POSITION 50-22.7N 125-47.0W
 DATE 77/ 3/ 3 TIME 1:43:42 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.57	30.37	23.73	1475.
10	7.56	30.52	23.85	1476.
20	7.57	30.48	23.82	1476.
30	7.58	30.43	23.77	1476.
50	7.59	30.33	23.70	1476.
75	7.61	30.30	23.67	1477.
100	7.63	30.25	23.62	1477.
125	7.64	30.28	23.65	1477.
150	7.65	30.27	23.64	1478.

STATION J 4 CRUISE 77-11 CONS # 14
 POSITION 50-22.7N 125-47.0W
 DATE 77/ 3/ 3 TIME 1:51:18 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.60	30.47	23.80	1475.
10	7.60	30.52	23.85	1476.
20	7.61	30.47	23.81	1476.
30	7.61	30.46	23.79	1476.
50	7.62	30.48	23.81	1476.
75	7.64	30.48	23.80	1477.

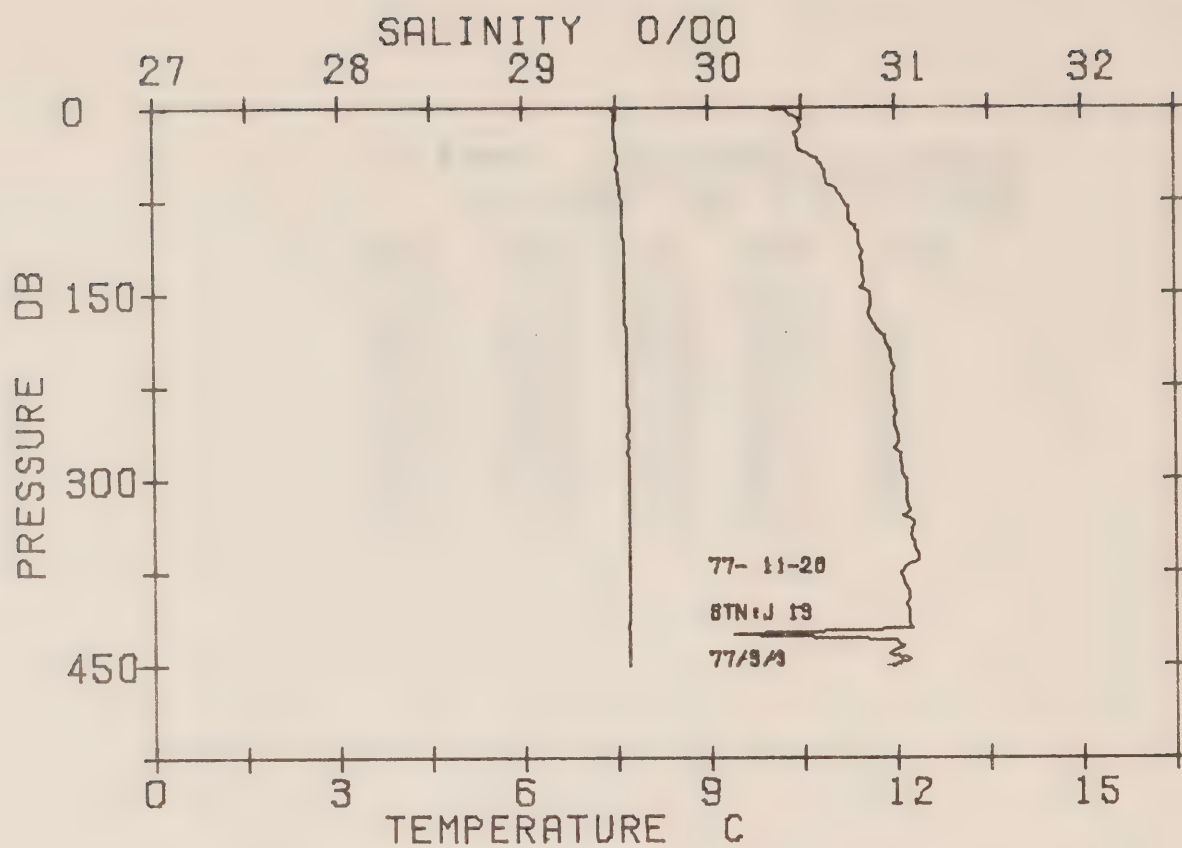


STATION J 4 CRUISE 77-11 CONS # 15
 POSITION 50-22.7N 125-47.0W
 DATE 77/ 3/ 3 TIME 1:56:30 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.63	30.46	23.79	1476.
10	7.61	30.50	23.83	1476.
20	7.61	30.48	23.81	1476.
30	7.61	30.48	23.81	1476.
50	7.62	30.49	23.81	1476.
75	7.64	30.48	23.80	1477.
100	7.65	30.49	23.81	1477.
125	7.65	30.49	23.82	1478.
150	7.66	30.50	23.82	1478.
175	7.66	30.52	23.83	1479.

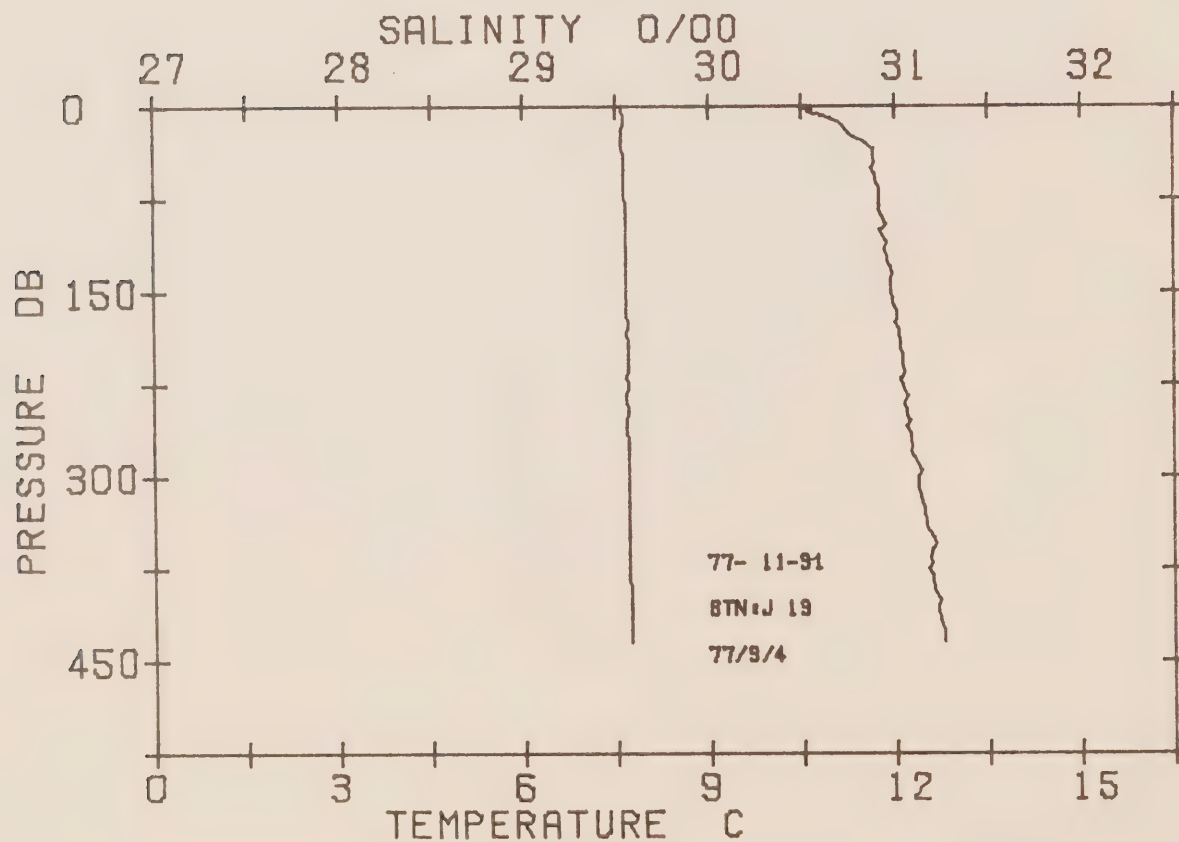
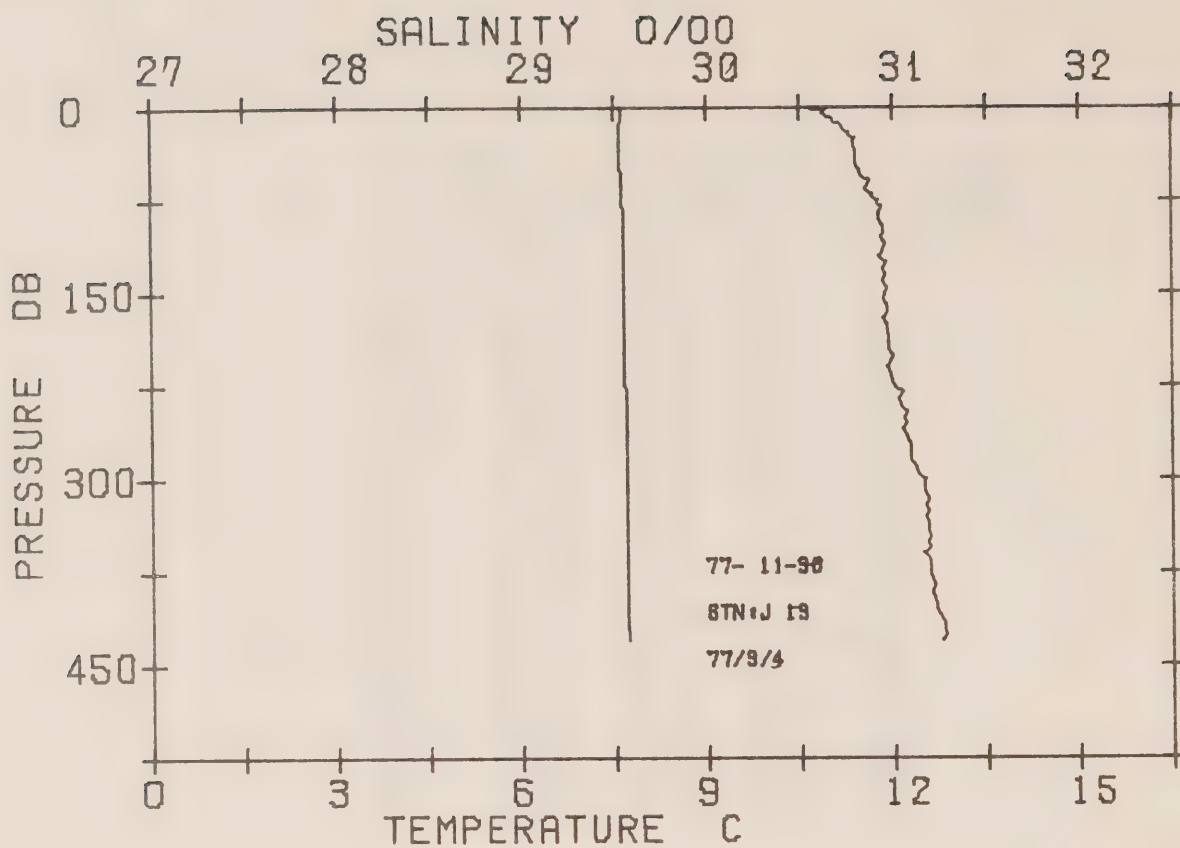
STATION J 9 CRUISE 77-11 CONS # 18
 POSITION 50-28.5N 126-10.7W
 DATE 77/ 3/ 3 TIME 6:31: 7 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.53	30.33	23.71	1475.
10	7.52	30.33	23.71	1475.
20	7.53	30.37	23.73	1475.
30	7.54	30.35	23.72	1476.
50	7.56	30.44	23.78	1476.
75	7.61	30.74	24.02	1477.
100	7.63	30.85	24.10	1478.
125	7.65	30.88	24.12	1478.
150	7.66	30.95	24.17	1479.
175	7.67	30.99	24.20	1479.
200	7.68	31.02	24.22	1480.
225	7.68	31.03	24.23	1480.
250	7.68	31.04	24.24	1481.
275	7.69	31.06	24.25	1481.
300	7.68	31.09	24.28	1481.



STATION J 13 CRUISE 77-11 CONS # 20
 POSITION 50-33.3N 126-47.0W
 DATE 77/ 3/ 3 TIME 20: 8:46 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.45	30.36	23.73	1475.
10	7.47	30.49	23.84	1475.
20	7.48	30.47	23.82	1475.
30	7.49	30.48	23.83	1476.
50	7.51	30.63	23.94	1476.
75	7.58	30.73	24.01	1477.
100	7.60	30.80	24.06	1478.
125	7.61	30.82	24.08	1478.
150	7.62	30.86	24.11	1478.
175	7.63	30.89	24.13	1479.
200	7.67	30.97	24.18	1480.
225	7.67	30.98	24.19	1480.
250	7.68	30.99	24.20	1481.
275	7.68	30.99	24.20	1481.
300	7.68	31.05	24.24	1481.
325	7.68	31.07	24.26	1482.
350	7.68	31.09	24.28	1482.
375	7.68	31.02	24.22	1483.
400	7.68	31.05	24.25	1483.
425	7.68	30.12	23.52	1482.
450	7.69	30.98	24.19	1484.

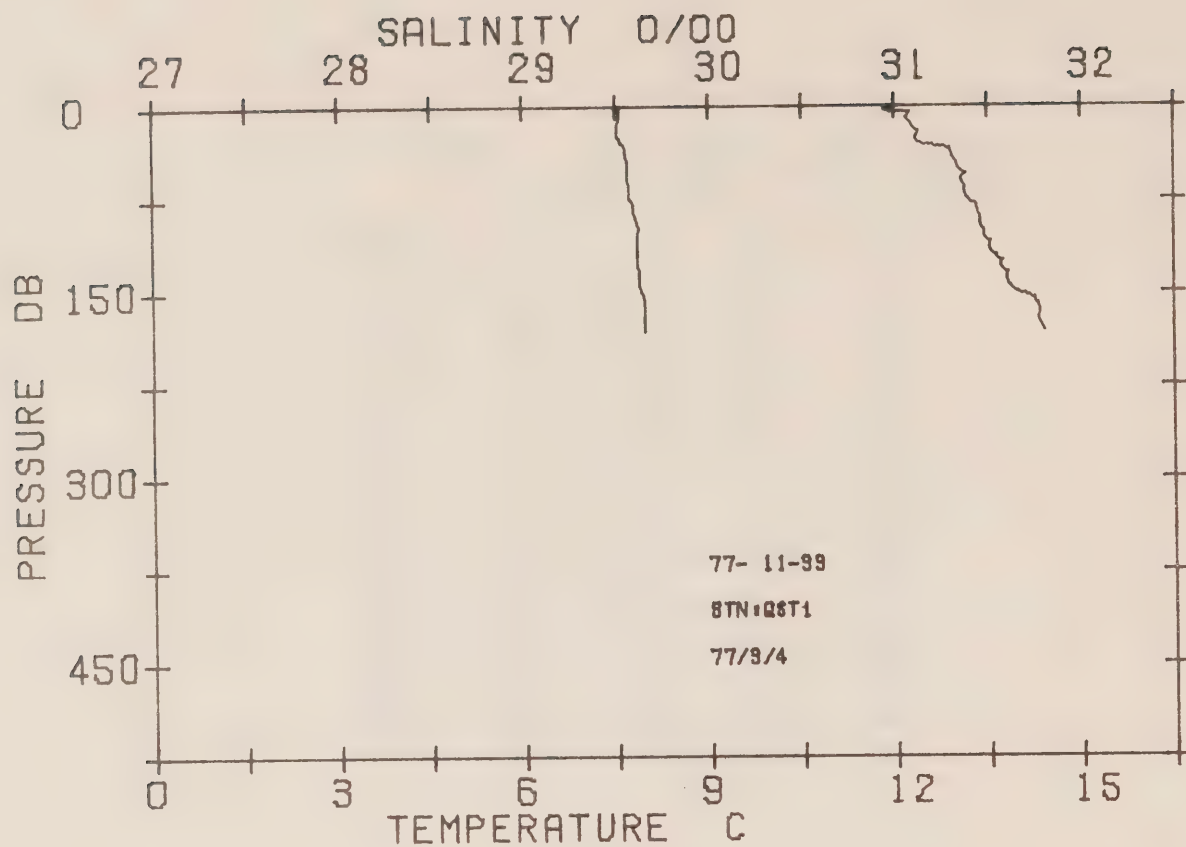


STATION J 13 CRUISE 77-11 CONS # 30
 POSITION 50-33.3N 126-47.0W
 DATE 77/ 3/ 4 TIME 5:28:52 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.60	30.54	23.86	1476.
10	7.61	30.68	23.96	1476.
20	7.58	30.76	24.03	1476.
30	7.59	30.79	24.05	1476.
50	7.60	30.82	24.08	1477.
75	7.64	30.92	24.15	1477.
100	7.65	30.95	24.17	1478.
125	7.65	30.96	24.18	1478.
150	7.66	30.96	24.18	1479.
175	7.67	30.97	24.19	1479.
200	7.67	31.00	24.21	1480.
225	7.67	31.01	24.21	1480.
250	7.68	31.06	24.26	1481.
275	7.68	31.09	24.28	1481.
300	7.70	31.17	24.34	1482.
325	7.70	31.19	24.35	1482.
350	7.69	31.19	24.36	1482.
375	7.70	31.20	24.36	1483.
400	7.70	31.23	24.39	1483.
425	7.71	31.28	24.42	1484.

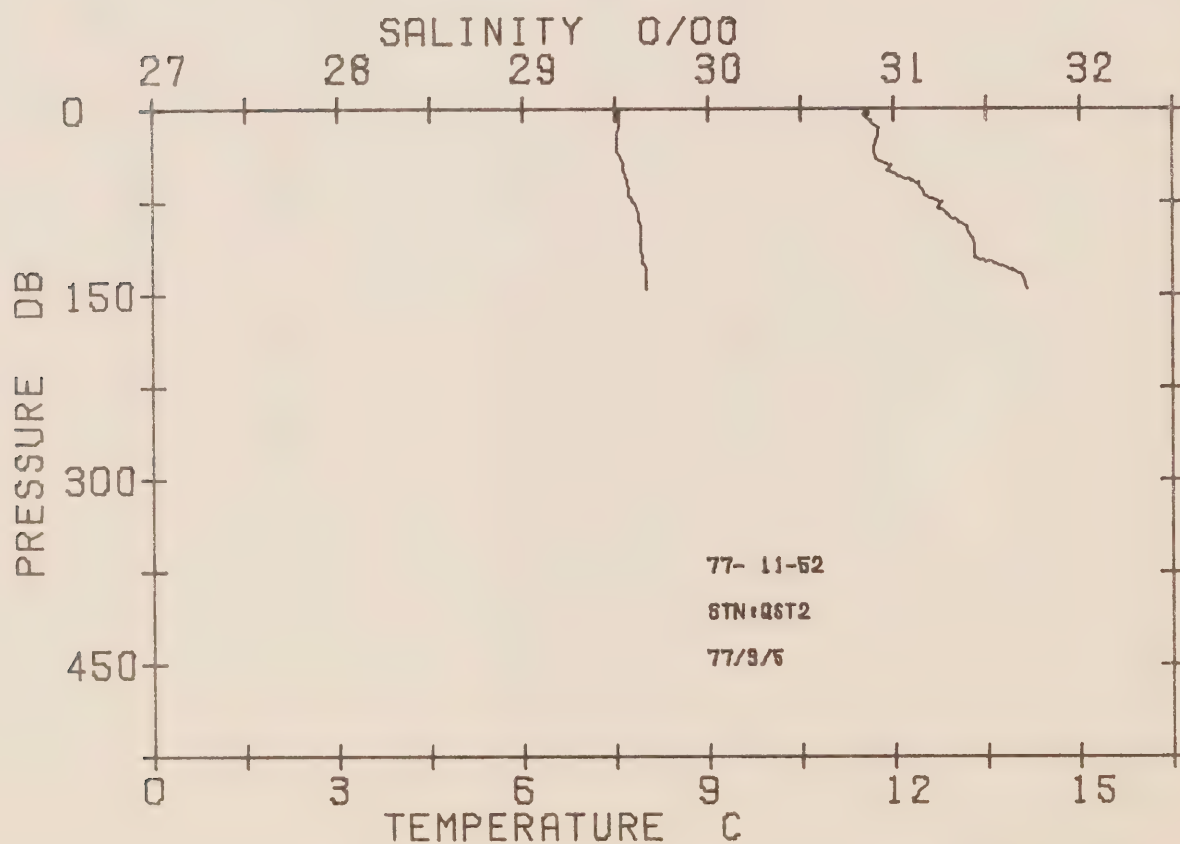
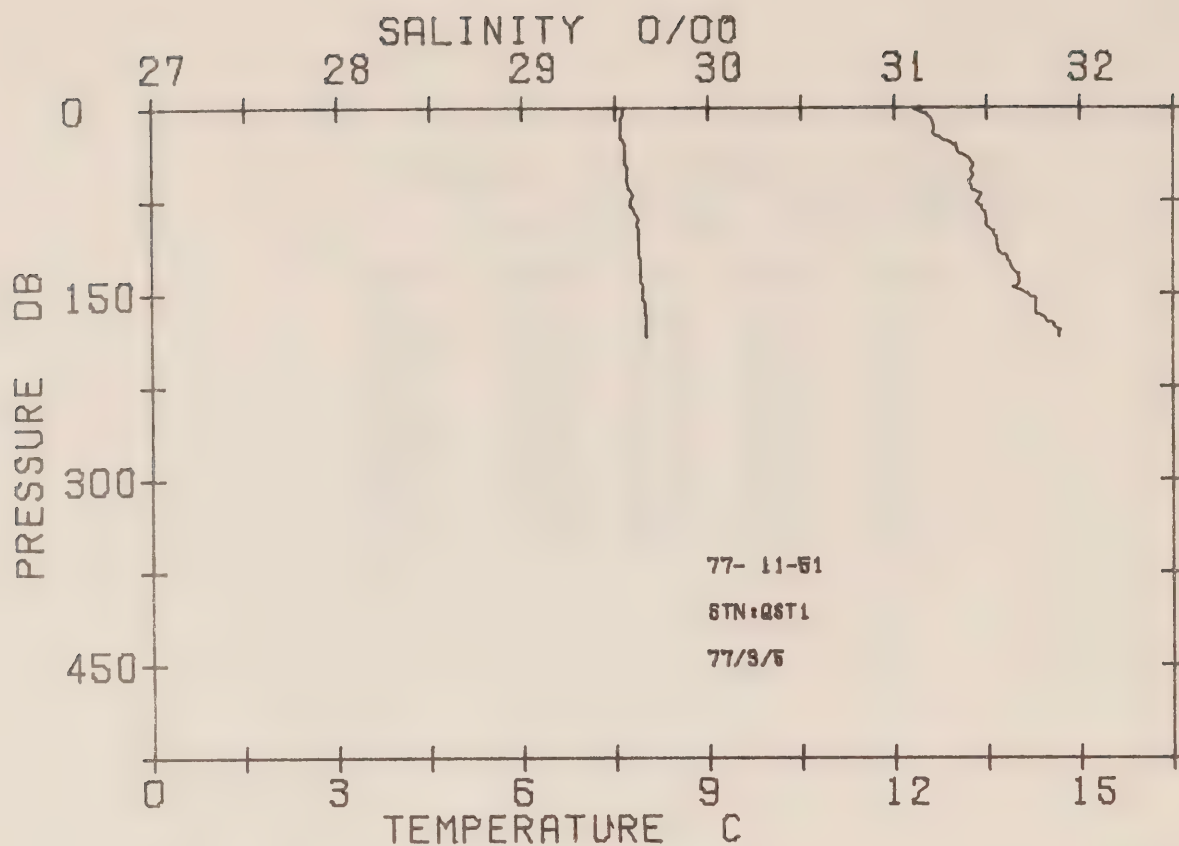
STATION J 13 CRUISE 77-11 CONS # 31
 POSITION 50-33.3N 126-47.0W
 DATE 77/ 3/ 4 TIME 6:48:11 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.59	30.52	23.84	1475.
10	7.61	30.66	23.95	1476.
20	7.60	30.75	24.02	1476.
30	7.60	30.85	24.10	1476.
50	7.62	30.88	24.13	1477.
75	7.64	30.92	24.15	1477.
100	7.65	30.93	24.16	1478.
125	7.66	30.96	24.18	1478.
150	7.67	30.98	24.20	1479.
175	7.68	31.00	24.21	1479.
200	7.68	31.04	24.24	1480.
225	7.68	31.04	24.24	1480.
250	7.68	31.06	24.26	1481.
275	7.68	31.09	24.28	1481.
300	7.68	31.12	24.30	1482.
325	7.69	31.16	24.33	1482.
350	7.70	31.21	24.37	1483.
375	7.69	31.18	24.35	1483.
400	7.71	31.24	24.39	1483.
425	7.71	31.26	24.41	1484.



STATION QST1 CRUISE 77-11 CONS # 33
POSITION 50-41.9N 126-55.5W
DATE 77/ 3/ 4 TIME 17: 5:55 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.56	30.96	24.19	1476.
10	7.55	31.06	24.27	1476.
20	7.52	31.12	24.32	1476.
30	7.50	31.13	24.32	1477.
50	7.69	31.34	24.47	1478.
75	7.71	31.40	24.52	1478.
100	7.87	31.48	24.56	1479.
125	7.85	31.57	24.63	1480.
150	7.90	31.66	24.69	1481.
175	7.98	31.78	24.78	1482.

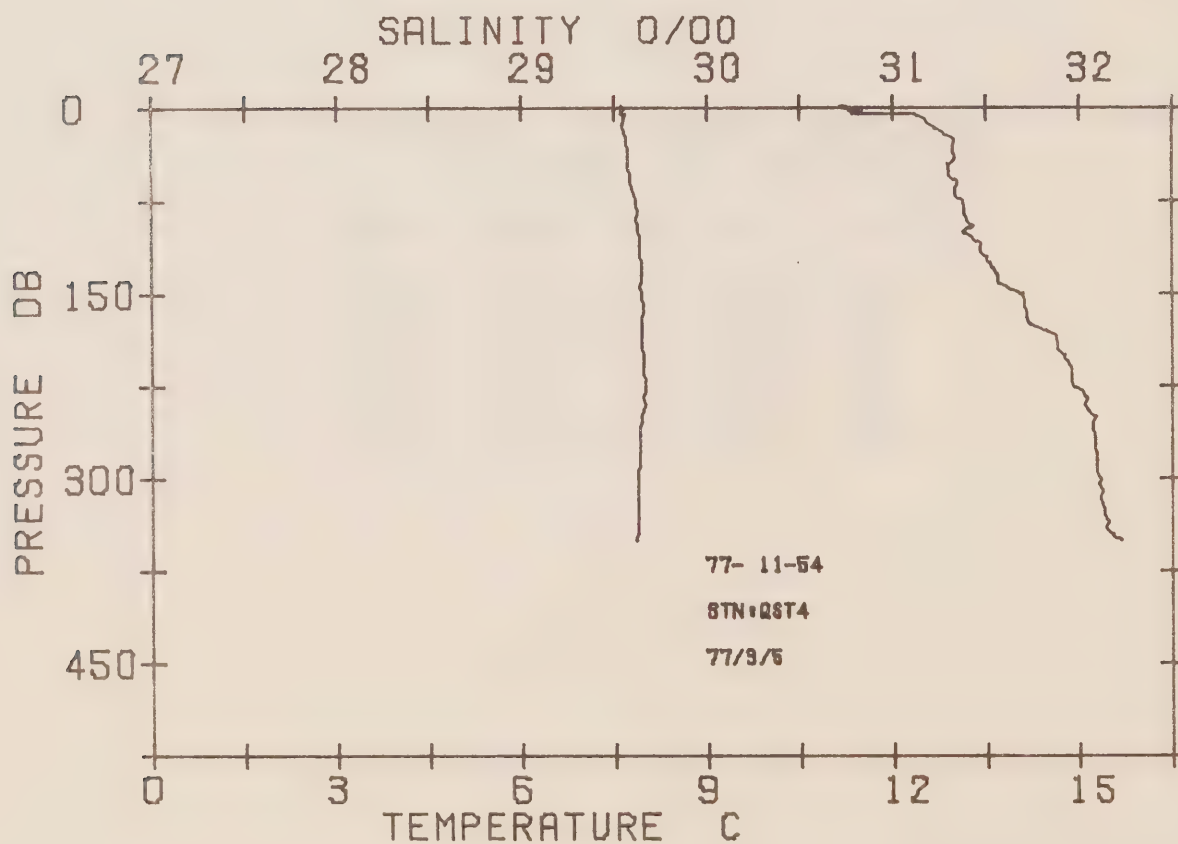
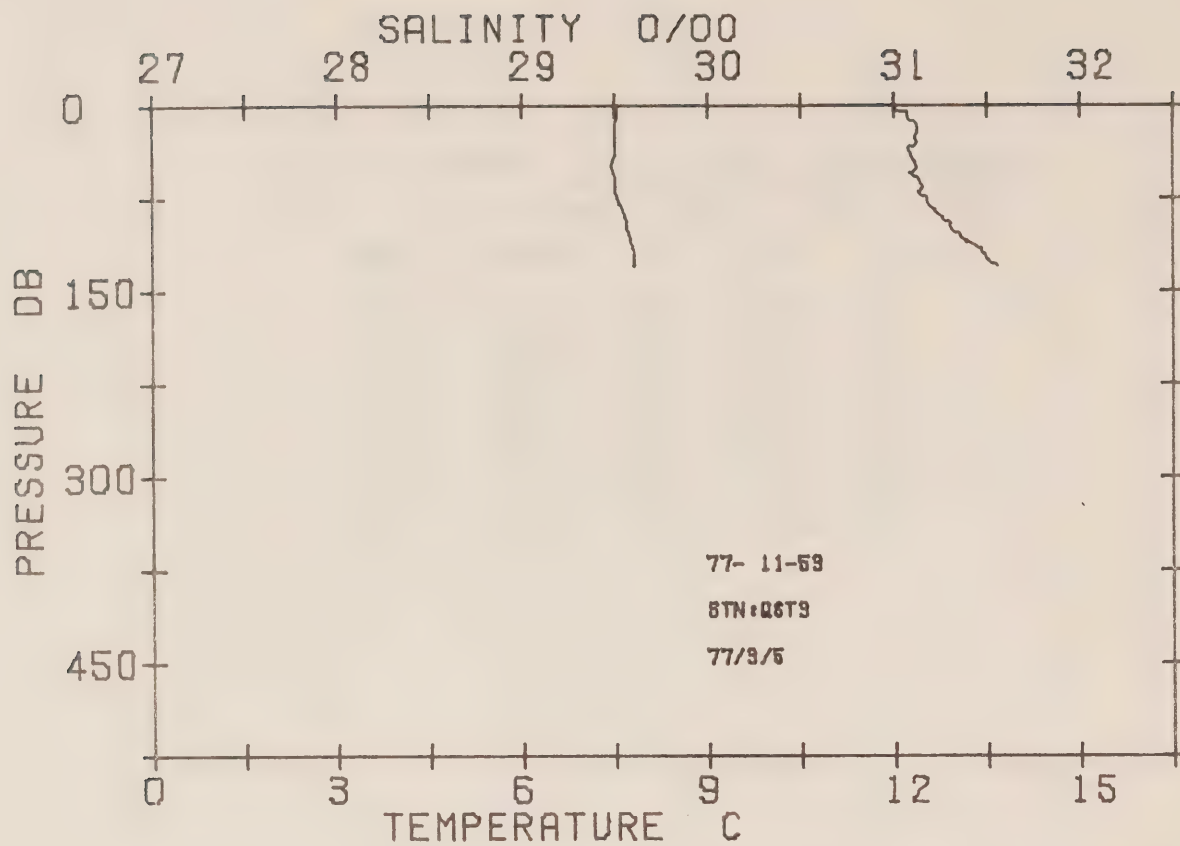


STATION QST1 CRUISE 77-11 CONS # 51
 POSITION 50-41.9N 126-55.5W
 DATE 77/ 3/ 5 TIME 6:58:45 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.62	31.15	24.33	1476.
10	7.59	31.21	24.39	1477.
20	7.60	31.21	24.38	1477.
30	7.65	31.33	24.47	1477.
50	7.69	31.42	24.54	1478.
75	7.75	31.45	24.55	1479.
100	7.86	31.53	24.60	1479.
125	7.90	31.63	24.67	1480.
150	7.95	31.72	24.73	1481.
175	8.00	31.85	24.83	1482.

STATION QST2 CRUISE 77-11 CONS # 52
 POSITION 50-45.0N 127- 8.2W
 DATE 77/ 3/ 5 TIME 7:54:16 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.56	30.85	24.10	1476.
10	7.55	30.88	24.13	1476.
20	7.54	30.92	24.17	1476.
30	7.53	30.90	24.15	1476.
50	7.63	30.97	24.19	1477.
75	7.78	31.26	24.39	1478.
100	7.90	31.41	24.50	1480.
125	7.95	31.55	24.60	1480.

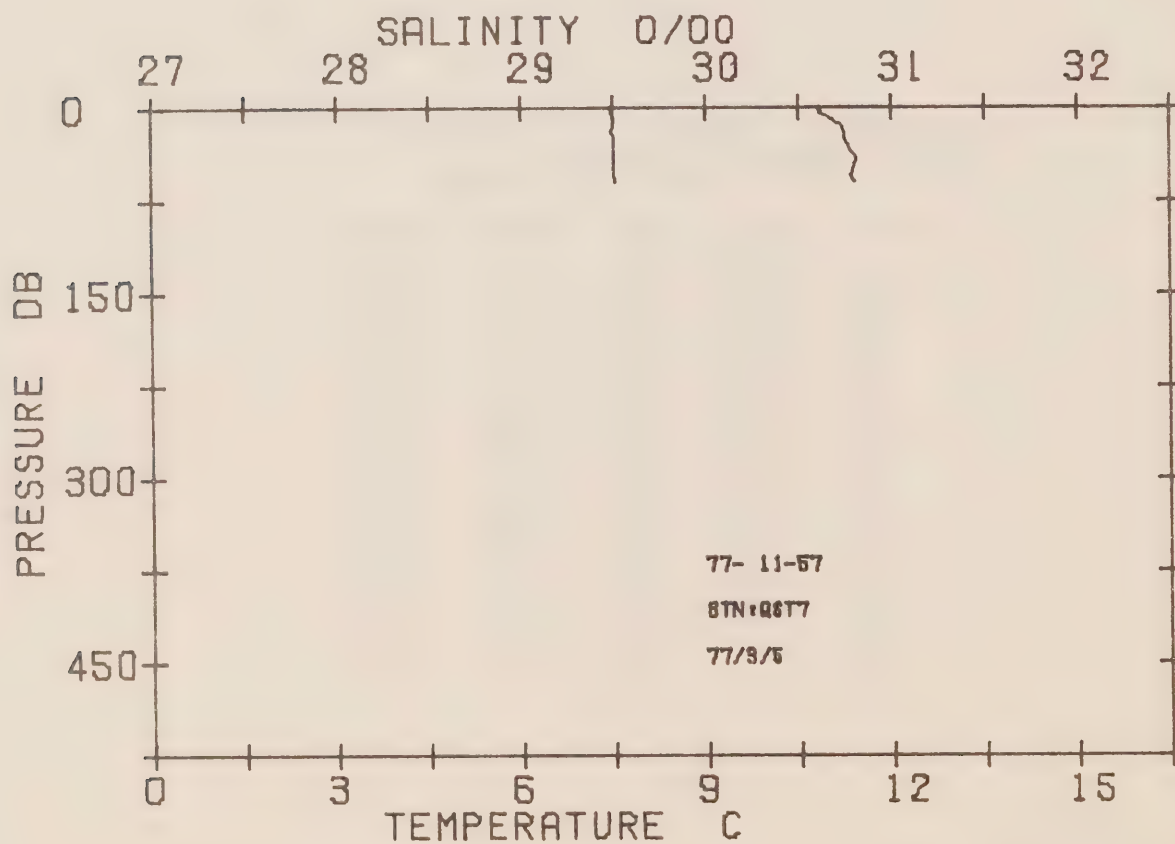
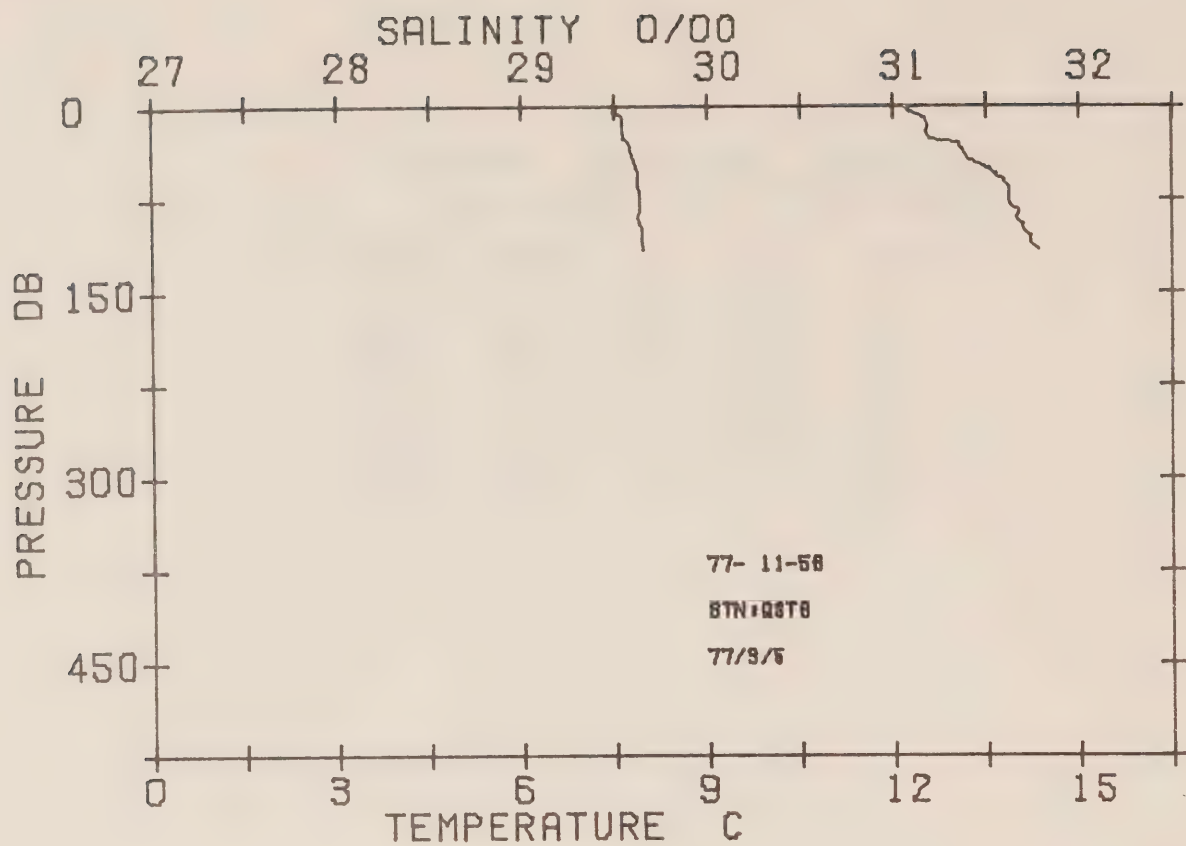


STATION QST3 CRUISE 77-11 CONS # 53
 POSITION 50-51.0N 127-20.0W
 DATE 77/ 3/ 5 TIME 8:49:27 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.53	31.01	24.24	1476.
10	7.52	31.07	24.29	1476.
20	7.51	31.12	24.32	1476.
30	7.50	31.12	24.32	1476.
50	7.45	31.12	24.33	1477.
75	7.52	31.18	24.37	1477.
100	7.70	31.31	24.45	1479.
125	7.80	31.51	24.59	1480.

STATION QST4 CRUISE 77-11 CONS # 54
 POSITION 50-47.0N 127-29.0W
 DATE 77/ 3/ 5 TIME 13:38: 5 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.65	30.81	24.06	1476.
10	7.67	31.18	24.35	1477.
20	7.67	31.27	24.42	1477.
30	7.70	31.32	24.46	1477.
50	7.73	31.30	24.43	1478.
75	7.83	31.37	24.47	1479.
100	7.86	31.38	24.48	1479.
125	7.93	31.52	24.58	1480.
150	7.95	31.70	24.72	1481.
175	7.93	31.74	24.75	1481.
200	7.97	31.92	24.89	1482.
225	7.99	31.97	24.92	1483.
250	7.94	32.08	25.02	1483.
275	7.92	32.08	25.02	1483.
300	7.87	32.11	25.05	1484.
325	7.86	32.14	25.08	1484.
350	7.85	32.22	25.14	1484.

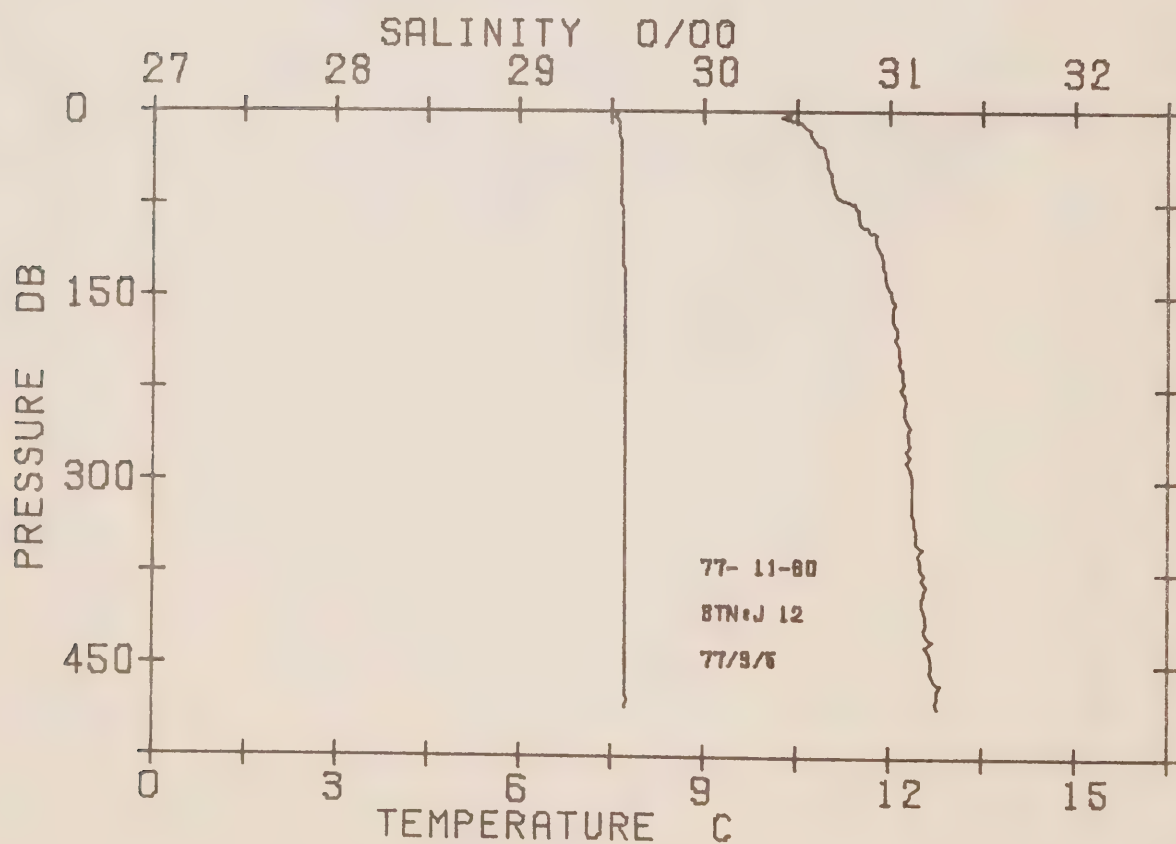
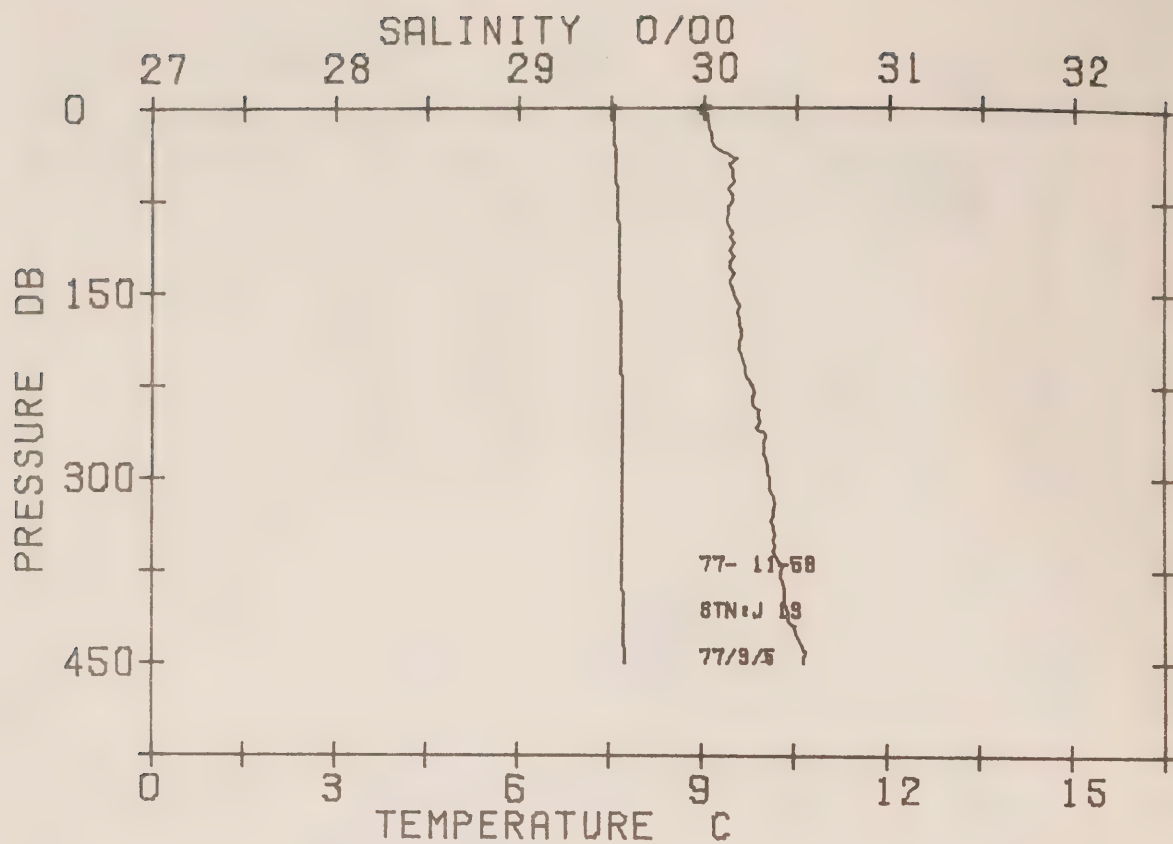


STATION QST6 CRUISE 77-11 CONS # 56
 POSITION 50-40.5N 127-13.5W
 DATE 77/ 3/ 5 TIME 15:14:48 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.56	31.12	24.32	1476.
10	7.63	31.18	24.36	1477.
20	7.64	31.18	24.35	1477.
30	7.73	31.35	24.48	1478.
50	7.84	31.52	24.59	1479.
75	7.91	31.62	24.66	1479.
100	7.93	31.71	24.73	1480.

STATION QST7 CRUISE 77-11 CONS # 57
 POSITION 50-37.3N 127- 5.0W
 DATE 77/ 3/ 5 TIME 16:10:54 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.44	30.60	23.93	1475.
10	7.49	30.69	23.99	1476.
20	7.48	30.75	24.04	1476.
30	7.50	30.77	24.05	1476.
50	7.51	30.79	24.06	1476.

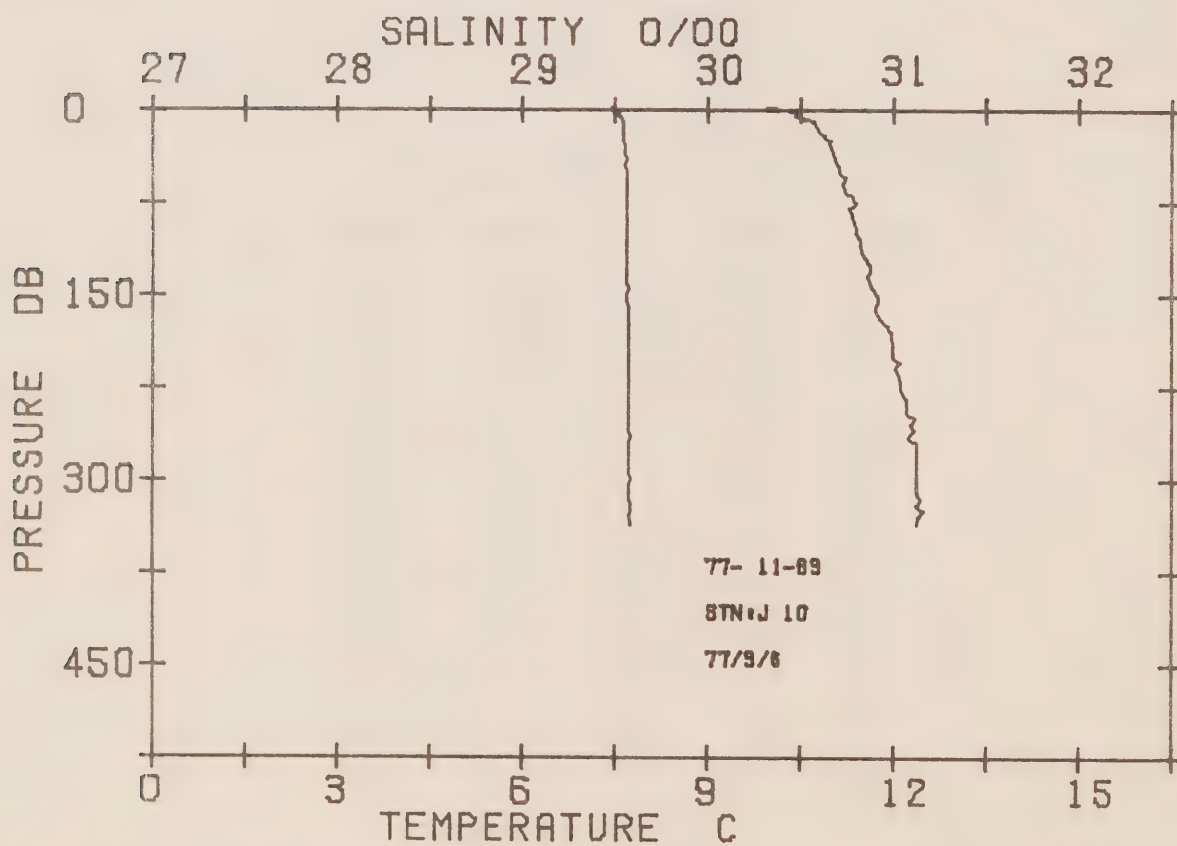
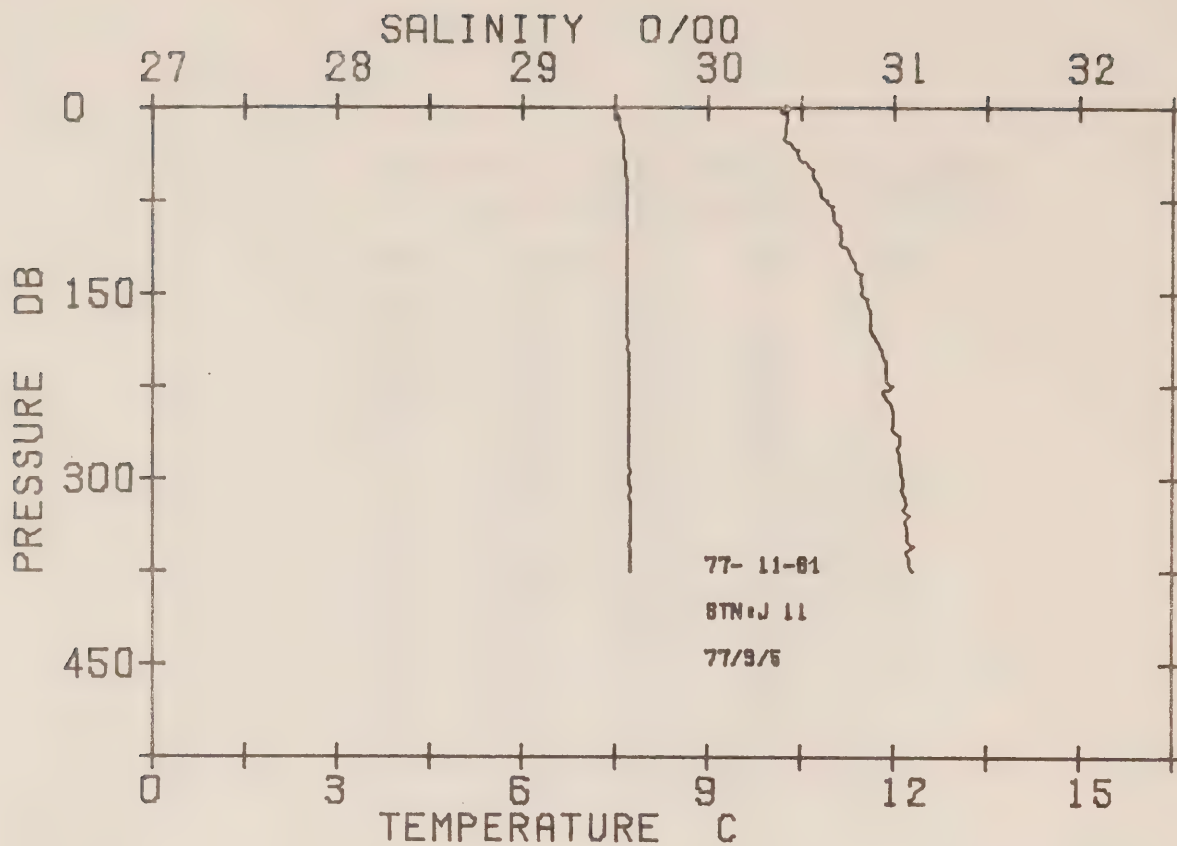


STATION J 13 CRUISE 77-11 CONS # 58
 POSITION 50-33.3N 126-47.0W
 DATE 77/ 3/ 5 TIME 18:50:55 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.55	29.99	23.43	1475.
10	7.53	30.02	23.46	1475.
20	7.53	30.04	23.47	1475.
30	7.54	30.05	23.48	1475.
50	7.57	30.16	23.57	1476.
75	7.59	30.16	23.56	1476.
100	7.62	30.16	23.56	1477.
125	7.63	30.15	23.55	1477.
150	7.64	30.17	23.56	1478.
175	7.65	30.20	23.58	1478.
200	7.66	30.21	23.59	1479.
225	7.68	30.27	23.63	1479.
250	7.69	30.30	23.66	1480.
275	7.70	30.33	23.68	1480.
300	7.69	30.36	23.70	1481.
325	7.69	30.39	23.73	1481.
350	7.70	30.39	23.72	1481.
375	7.70	30.43	23.76	1482.
400	7.71	30.45	23.77	1482.
425	7.73	30.51	23.82	1483.
450	7.74	30.55	23.85	1483.

STATION J 12 CRUISE 77-11 CONS # 60
 POSITION 50-33.3N 126-47.0W
 DATE 77/ 3/ 5 TIME 21:32:26 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.57	30.43	23.78	1475.
10	7.61	30.53	23.85	1476.
20	7.64	30.58	23.89	1476.
30	7.65	30.65	23.94	1476.
50	7.66	30.69	23.96	1477.
75	7.66	30.81	24.06	1477.
100	7.69	30.93	24.15	1478.
125	7.70	30.97	24.18	1479.
150	7.71	31.01	24.21	1479.
175	7.72	31.04	24.24	1480.
200	7.71	31.06	24.25	1480.
225	7.72	31.06	24.25	1480.
250	7.72	31.09	24.28	1481.
275	7.72	31.09	24.27	1481.
300	7.72	31.12	24.29	1482.
325	7.73	31.13	24.30	1482.
350	7.73	31.15	24.32	1483.
375	7.72	31.19	24.35	1483.
400	7.72	31.18	24.35	1483.
425	7.73	31.20	24.36	1484.
450	7.73	31.23	24.38	1484.
475	7.72	31.26	24.41	1485.

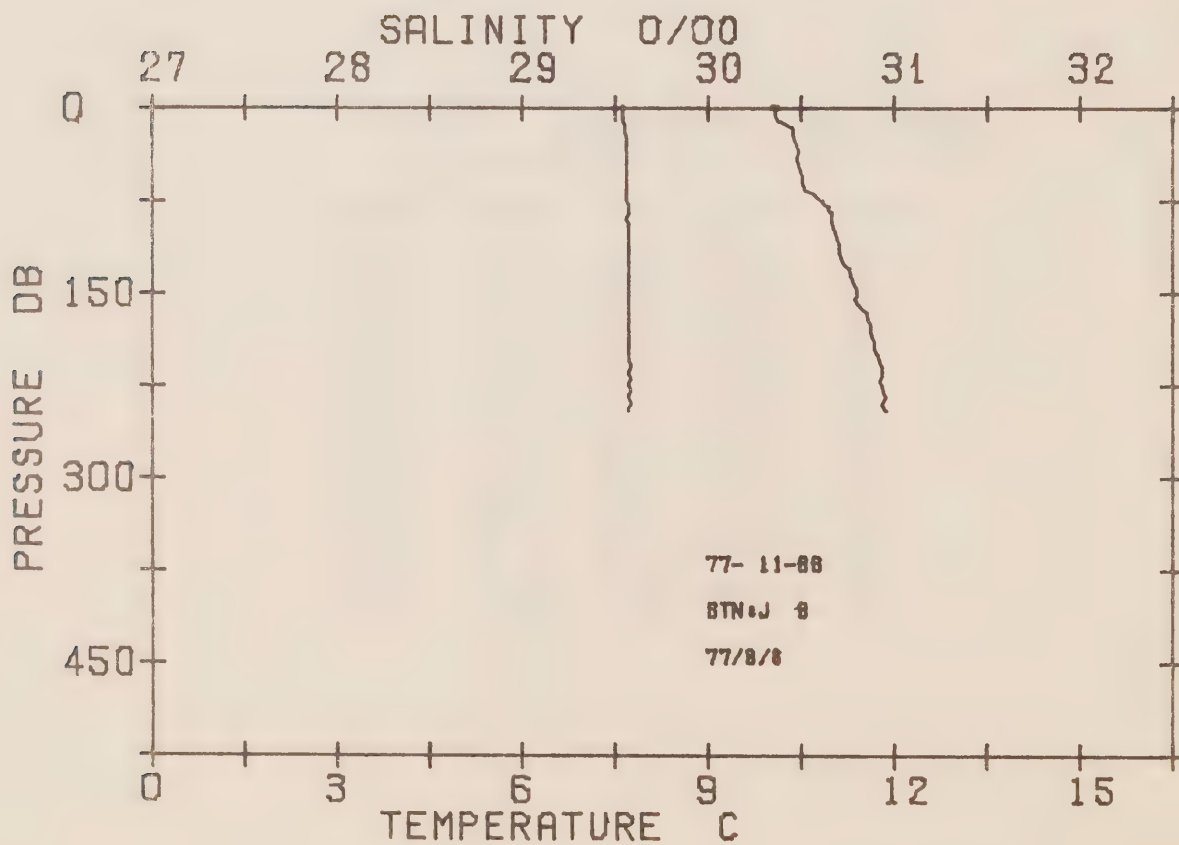
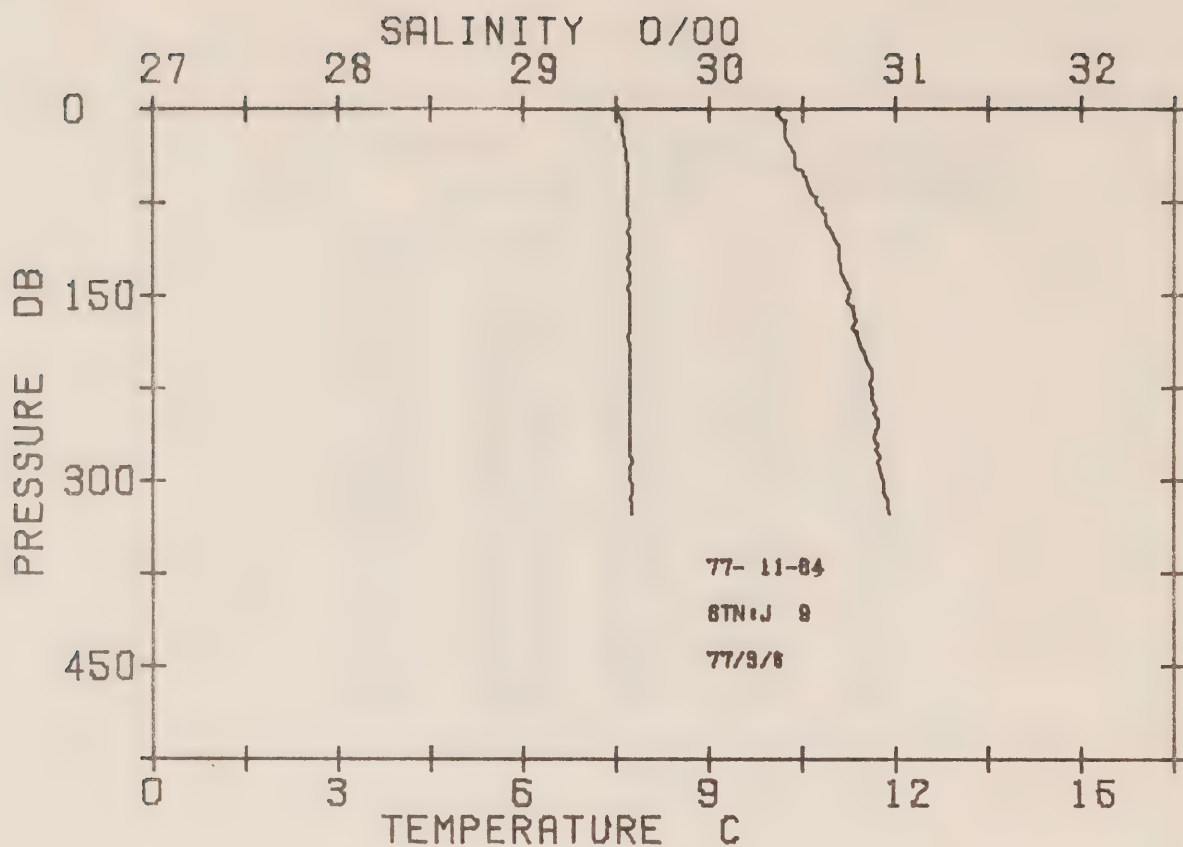


STATION J 11 CRUISE 77-11 CONS # 61
 POSITION 50-30.0N 126-30.0W
 DATE 77/ 3/ 5 TIME 22:39: 8 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.50	30.43	23.78	1475.
10	7.56	30.43	23.78	1475.
20	7.60	30.42	23.76	1476.
30	7.61	30.45	23.79	1476.
50	7.67	30.56	23.86	1477.
75	7.68	30.64	23.92	1477.
100	7.68	30.72	23.99	1478.
125	7.69	30.79	24.04	1478.
150	7.70	30.82	24.07	1479.
175	7.70	30.88	24.11	1479.
200	7.71	30.94	24.16	1480.
225	7.71	30.99	24.19	1480.
250	7.72	31.00	24.20	1481.
275	7.73	31.02	24.22	1481.
300	7.73	31.05	24.24	1482.
325	7.74	31.05	24.24	1482.
350	7.74	31.07	24.25	1482.
375	7.74	31.10	24.28	1483.

STATION J 10 CRUISE 77-11 CONS # 63
 POSITION 50-29.7N 126-18.7W
 DATE 77/ 3/ 6 TIME 0:28:40 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.45	30.38	23.75	1475.
10	7.61	30.57	23.88	1476.
20	7.63	30.63	23.93	1476.
30	7.65	30.67	23.96	1476.
50	7.68	30.71	23.98	1477.
75	7.69	30.80	24.05	1477.
100	7.69	30.80	24.05	1478.
125	7.70	30.87	24.10	1478.
150	7.70	30.92	24.14	1479.
175	7.71	30.97	24.18	1479.
200	7.72	31.00	24.20	1480.
225	7.72	31.04	24.24	1480.
250	7.72	31.11	24.28	1481.
275	7.73	31.12	24.29	1481.
300	7.74	31.12	24.29	1482.
325	7.74	31.16	24.32	1482.

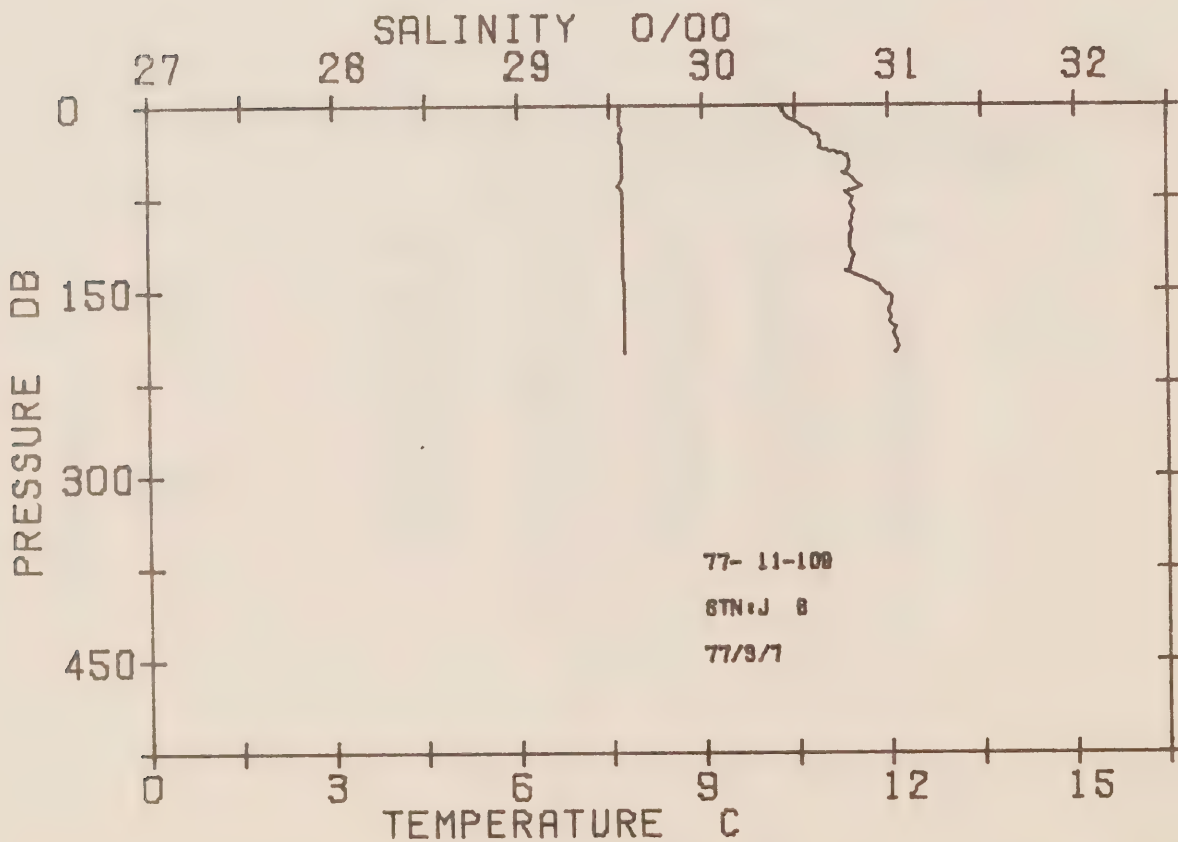
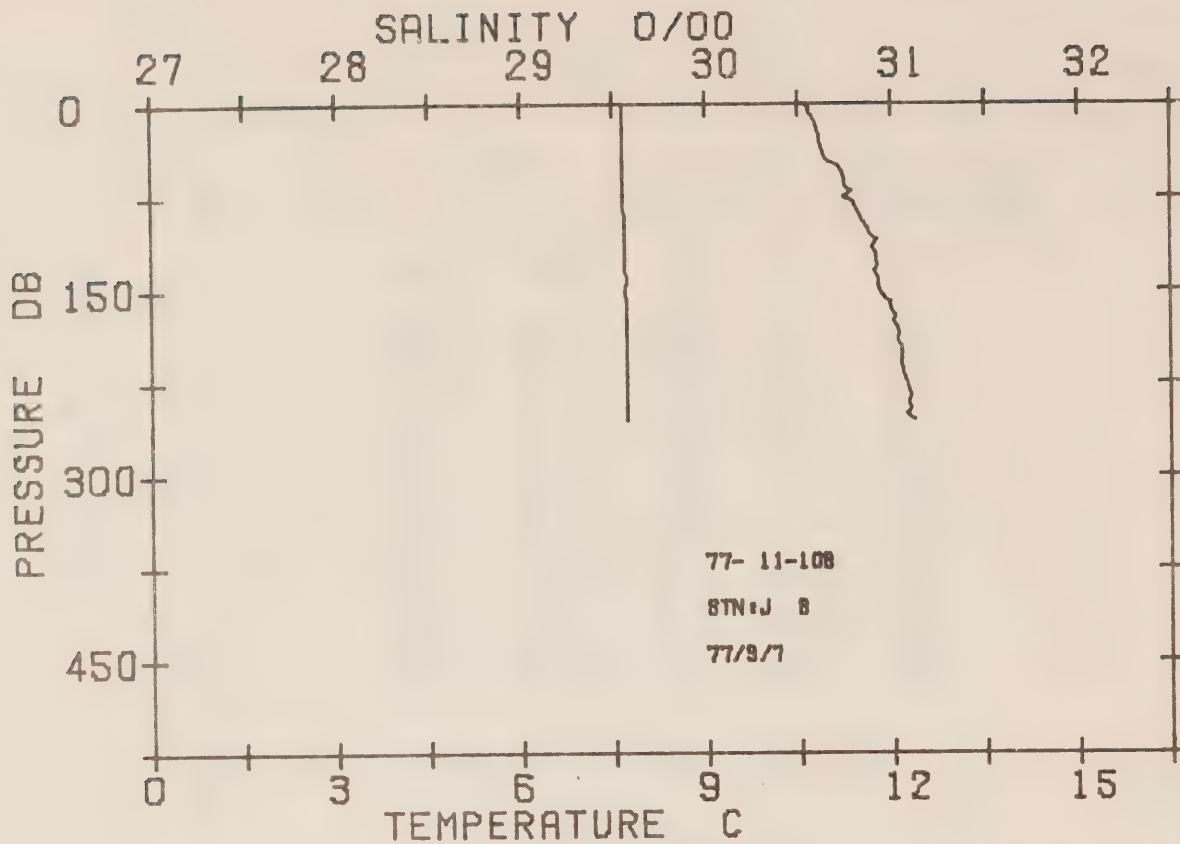


STATION J 9 CRUISE 77-11 CONS # 64
 POSITION 50-28.5N 126-10.7W
 DATE 77/ 3/ 6 TIME 1:13:54 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.53	30.37	23.74	1475.
10	7.59	30.41	23.76	1476.
20	7.60	30.41	23.76	1476.
30	7.63	30.44	23.78	1476.
50	7.69	30.50	23.81	1477.
75	7.69	30.57	23.87	1477.
100	7.70	30.67	23.95	1478.
125	7.71	30.71	23.98	1478.
150	7.71	30.75	24.01	1479.
175	7.72	30.77	24.02	1479.
200	7.72	30.84	24.08	1480.
225	7.72	30.88	24.11	1480.
250	7.73	30.91	24.13	1481.
275	7.73	30.90	24.12	1481.
300	7.73	30.94	24.15	1481.
325	7.74	30.97	24.18	1482.

STATION J 8 CRUISE 77-11 CONS # 66
 POSITION 50-27.5N 126- 3.4W
 DATE 77/ 3/ 6 TIME 2:44: 8 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.61	30.36	23.71	1475.
10	7.63	30.38	23.73	1476.
20	7.67	30.46	23.79	1476.
30	7.70	30.48	23.80	1476.
50	7.69	30.50	23.82	1477.
75	7.70	30.61	23.90	1477.
100	7.71	30.69	23.96	1478.
125	7.71	30.73	23.99	1478.
150	7.72	30.80	24.05	1479.
175	7.73	30.88	24.11	1479.
200	7.73	30.92	24.13	1480.
225	7.73	30.94	24.16	1480.

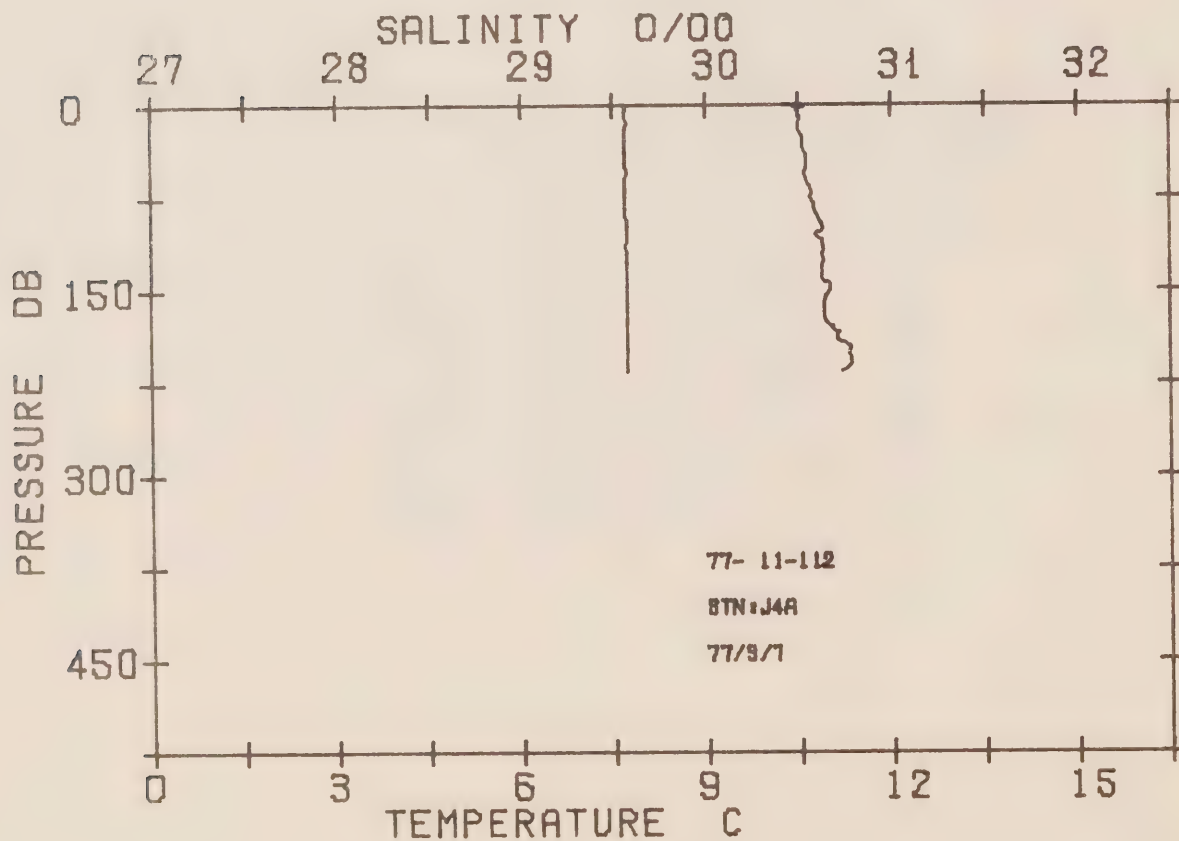
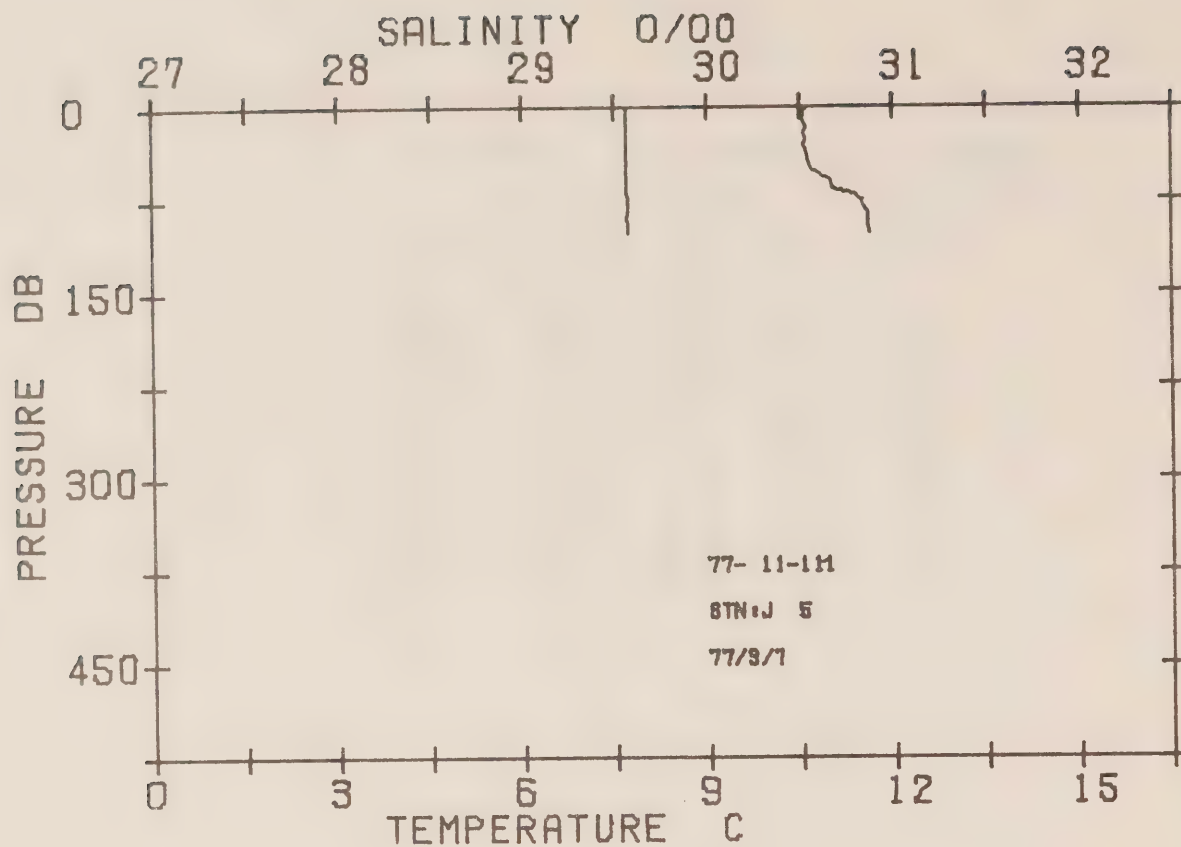


STATION J 8 CRUISE 77-11 CONS #108
 POSITION 50- 6.0N 126- 3.4W
 DATE 77/ 3/ 7 TIME 16: 3:44 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.65	30.54	23.85	1476.
10	7.65	30.57	23.88	1476.
20	7.66	30.60	23.89	1476.
30	7.66	30.61	23.91	1476.
50	7.66	30.72	23.99	1477.
75	7.67	30.75	24.02	1477.
100	7.68	30.87	24.10	1478.
125	7.70	30.92	24.14	1478.
150	7.70	30.94	24.16	1479.
175	7.72	31.01	24.21	1479.
200	7.72	31.05	24.24	1480.
225	7.72	31.08	24.27	1480.
250	7.73	31.08	24.26	1481.

STATION J 6 CRUISE 77-11 CONS #109
 POSITION 50-26.4N 126- .7W
 DATE 77/ 3/ 7 TIME 16:27:52 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.67	30.43	23.77	1476.
10	7.67	30.46	23.78	1476.
20	7.68	30.58	23.88	1476.
30	7.67	30.64	23.93	1476.
50	7.68	30.79	24.05	1477.
75	7.68	30.80	24.05	1477.
100	7.69	30.80	24.05	1478.
125	7.69	30.80	24.05	1478.
150	7.71	30.97	24.18	1479.
175	7.73	31.00	24.20	1480.
200	7.73	31.03	24.22	1480.

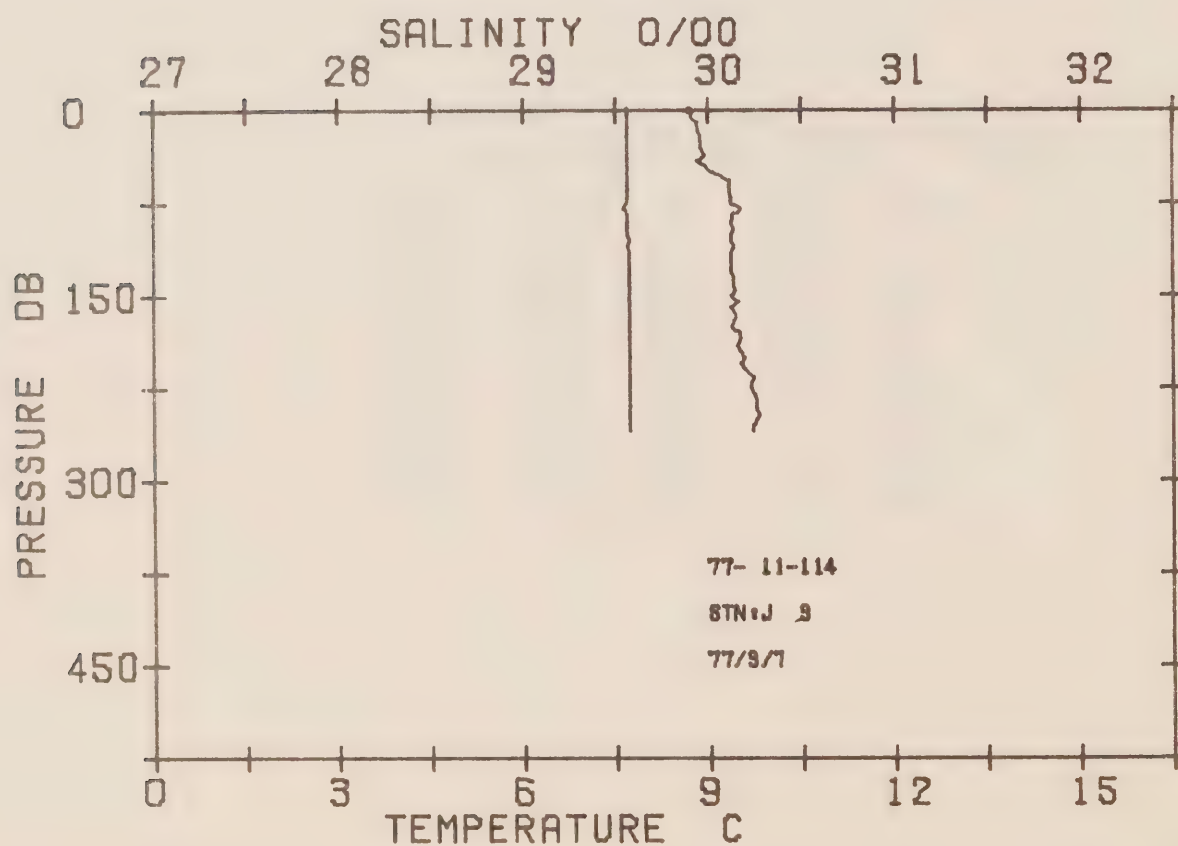
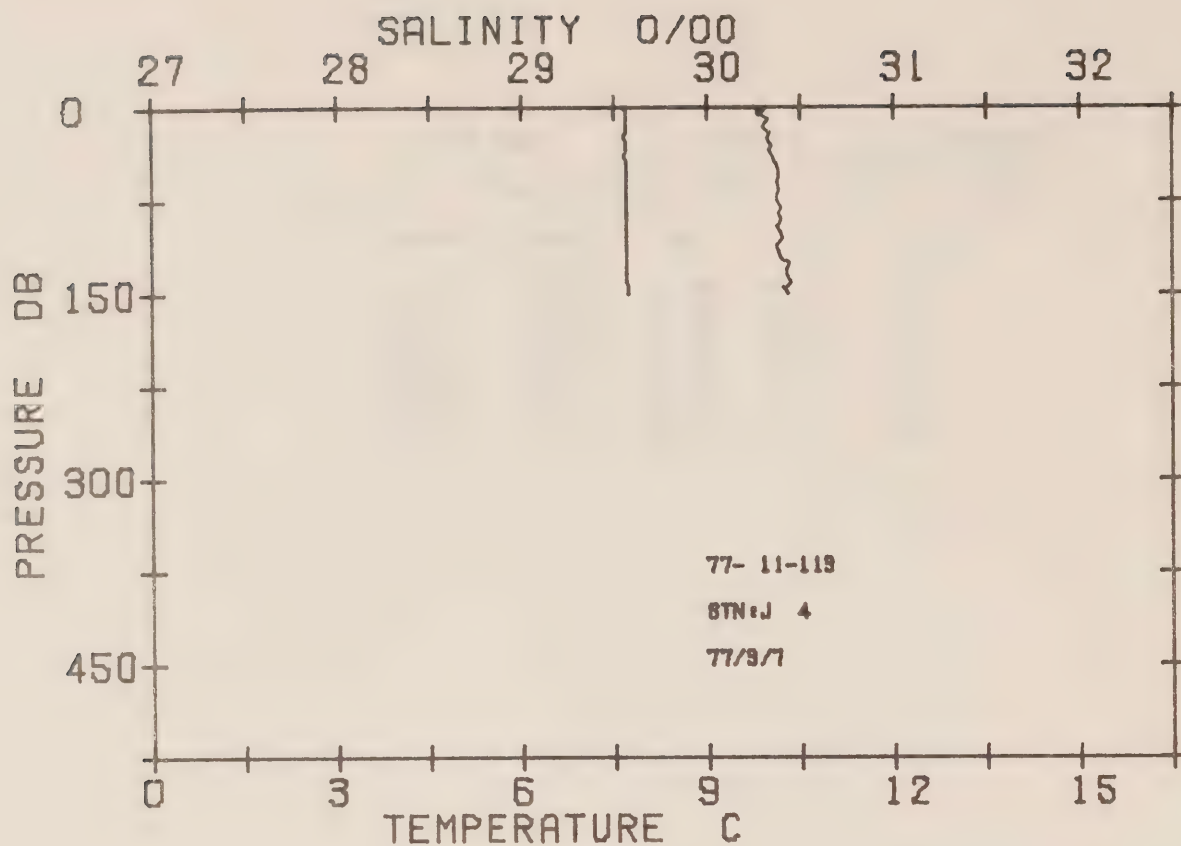


STATION J 5 CRUISE 77-11 CONS #111
 POSITION 50-24.5N 125-56.8W
 DATE 77/ 3/ 7 TIME 17:22:31 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.70	30.51	23.82	1476.
10	7.70	30.51	23.82	1476.
20	7.69	30.52	23.83	1476.
30	7.69	30.52	23.83	1476.
50	7.69	30.56	23.86	1477.
75	7.71	30.83	24.07	1478.
100	7.72	30.87	24.10	1478.

STATION J4A CRUISE 77-11 CONS #112
 POSITION 50-23.5N 125-53.5W
 DATE 77/ 3/ 7 TIME 17:43:14 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.70	30.51	23.82	1476.
10	7.70	30.51	23.82	1476.
20	7.70	30.50	23.81	1476.
30	7.70	30.52	23.83	1476.
50	7.69	30.54	23.85	1477.
75	7.70	30.56	23.86	1477.
100	7.71	30.64	23.92	1478.
125	7.71	30.64	23.92	1478.
150	7.71	30.67	23.94	1479.
175	7.72	30.65	23.93	1479.
200	7.72	30.77	24.02	1480.

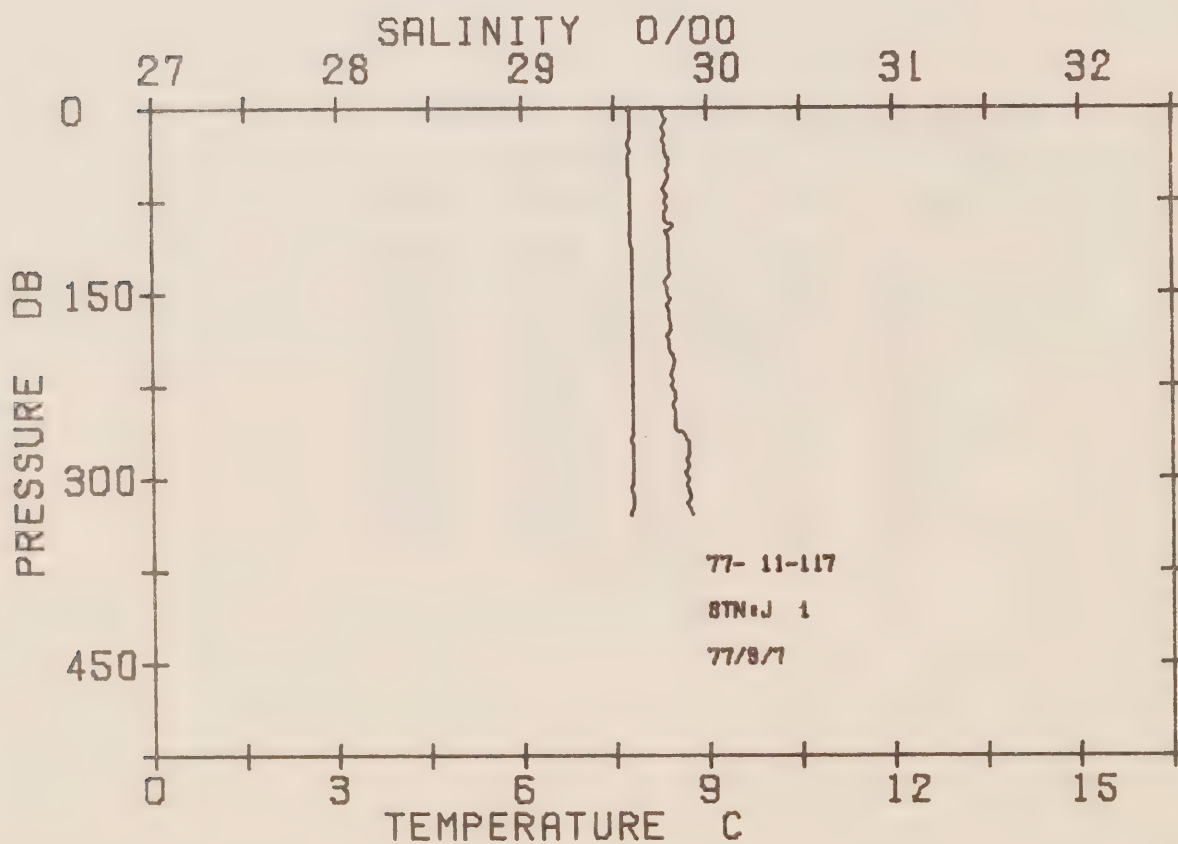
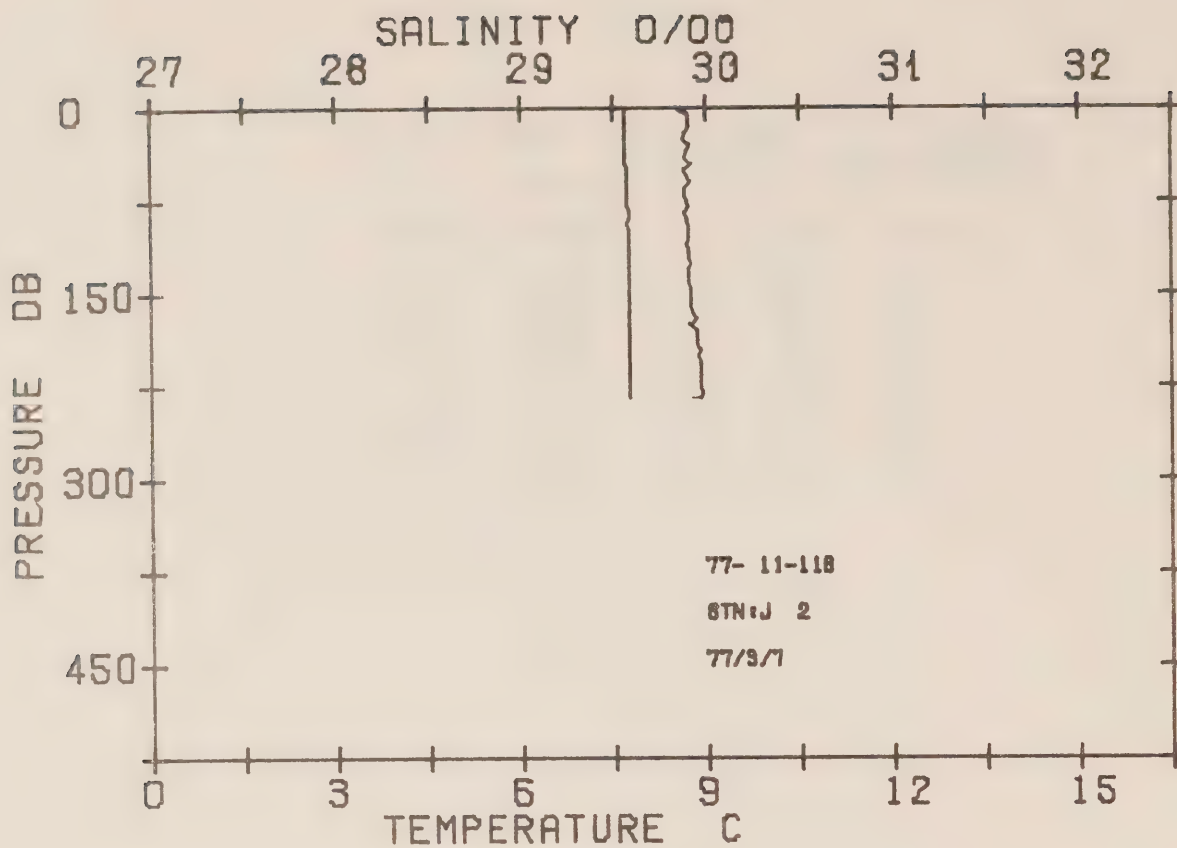


STATION J 4 CRUISE 77-11 CONS #113
 POSITION 50-22.7N 125-47.0W
 DATE 77/ 3/ 7 TIME 18:16:43 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.68	30.27	23.63	1476.
10	7.68	30.33	23.68	1476.
20	7.68	30.33	23.69	1476.
30	7.68	30.34	23.69	1476.
50	7.69	30.39	23.73	1477.
75	7.68	30.37	23.71	1477.
100	7.70	30.40	23.74	1477.
125	7.70	30.44	23.77	1478.
150	7.71	30.44	23.76	1478.

STATION J 3 CRUISE 77-11 CONS #114
 POSITION 50-22.2N 125-39.0W
 DATE 77/ 3/ 7 TIME 18:54:37 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.68	29.90	23.34	1475.
10	7.68	29.94	23.38	1475.
20	7.68	29.96	23.39	1475.
30	7.69	29.96	23.39	1476.
50	7.70	30.02	23.44	1476.
75	7.70	30.12	23.51	1477.
100	7.69	30.13	23.52	1477.
125	7.71	30.13	23.52	1478.
150	7.72	30.12	23.51	1478.
175	7.73	30.13	23.52	1478.
200	7.72	30.20	23.57	1479.
225	7.72	30.23	23.60	1479.
250	7.72	30.26	23.62	1480.

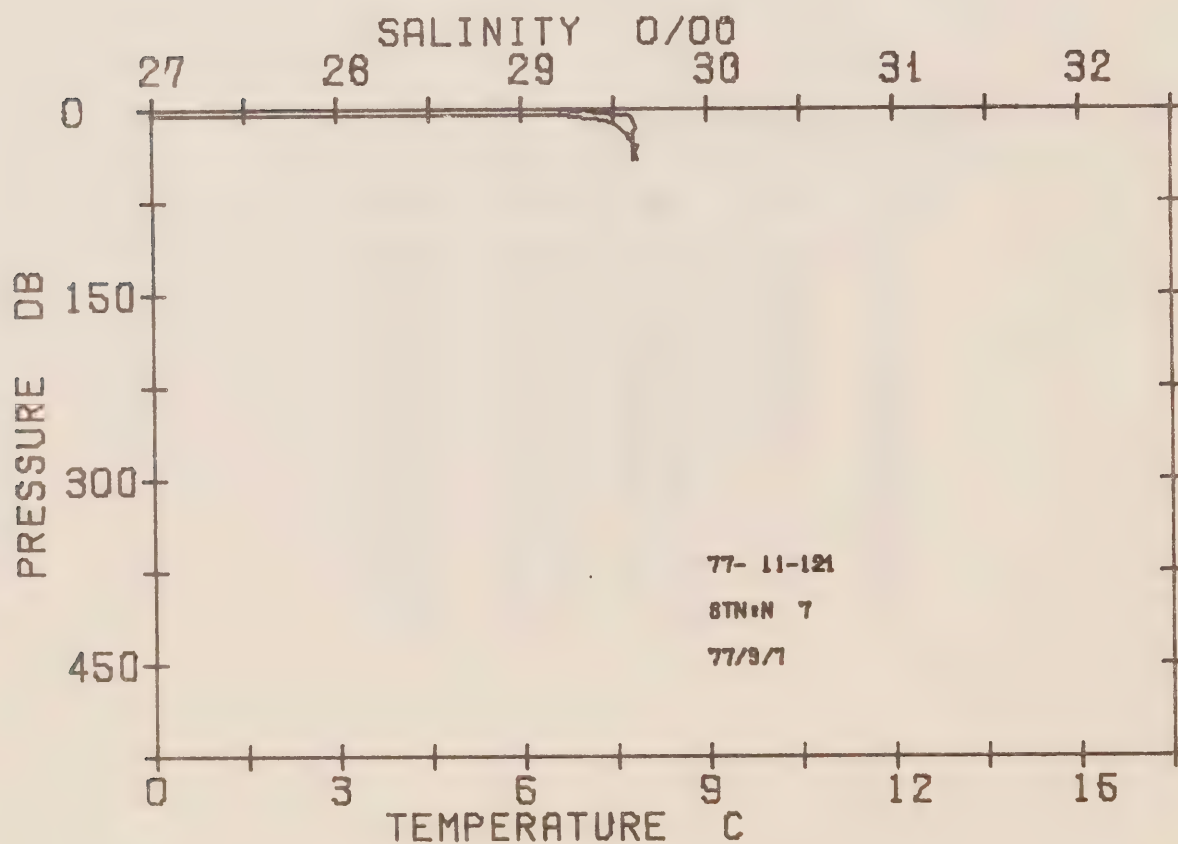
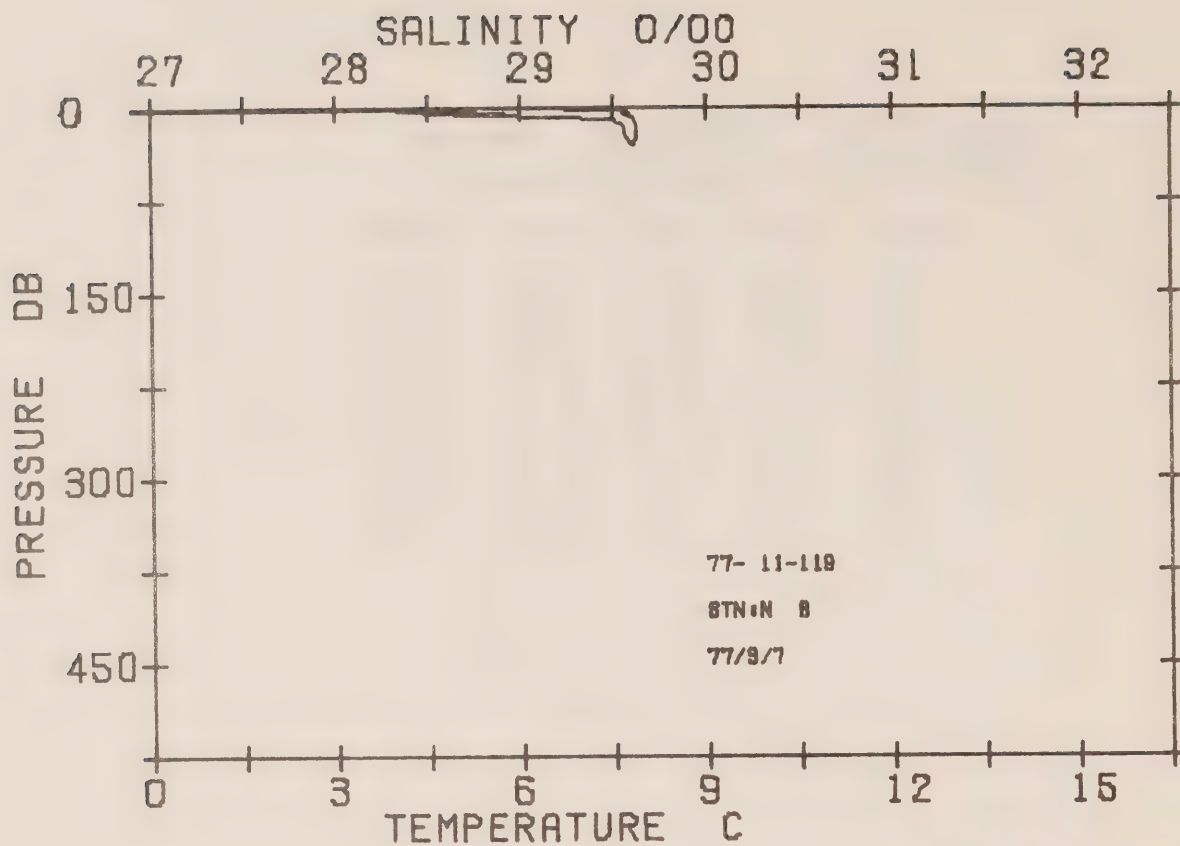


STATION J 2 CRUISE 77-11 CONS #116
 POSITION 50-22.2N 125-33.5W
 DATE 77/ 3/ 7 TIME 20: 7:20 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.69	29.86	23.31	1475.
10	7.70	29.91	23.35	1475.
20	7.70	29.89	23.34	1475.
30	7.68	29.91	23.36	1476.
50	7.72	29.89	23.34	1476.
75	7.73	29.90	23.34	1476.
100	7.74	29.91	23.35	1477.
125	7.75	29.92	23.35	1477.
150	7.75	29.92	23.35	1478.
175	7.76	29.92	23.35	1478.
200	7.75	29.96	23.39	1479.
225	7.75	29.97	23.39	1479.

STATION J 1 CRUISE 77-11 CONS #117
 POSITION 50-20.7N 125-25.5W
 DATE 77/ 3/ 7 TIME 20:59: 8 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.74	29.75	23.22	1475.
10	7.74	29.78	23.24	1475.
20	7.74	29.77	23.23	1475.
30	7.73	29.77	23.24	1476.
50	7.73	29.78	23.25	1476.
75	7.76	29.77	23.23	1476.
100	7.76	29.78	23.24	1477.
125	7.77	29.79	23.25	1477.
150	7.79	29.78	23.24	1478.
175	7.78	29.80	23.26	1478.
200	7.78	29.81	23.26	1479.
225	7.79	29.80	23.25	1479.
250	7.78	29.82	23.27	1479.
275	7.77	29.90	23.34	1480.
300	7.77	29.90	23.33	1480.
325	7.77	29.91	23.34	1481.

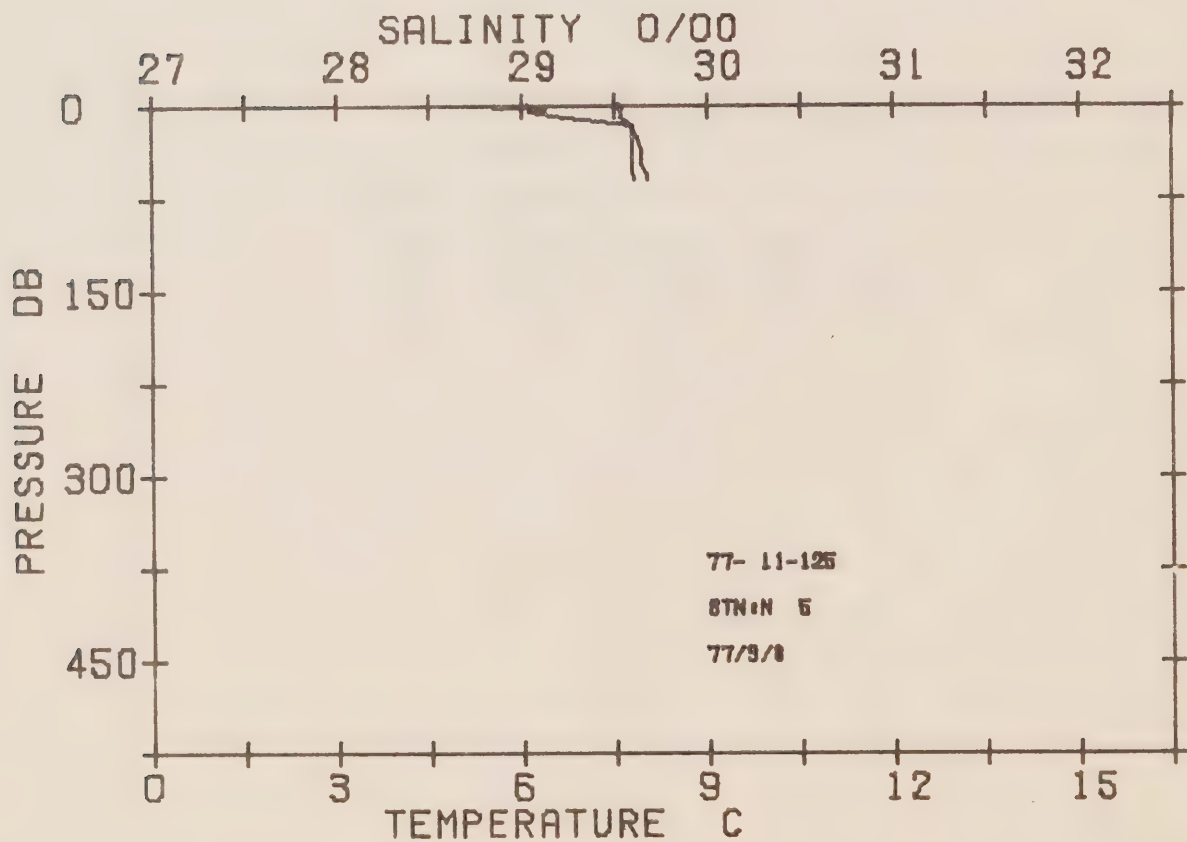
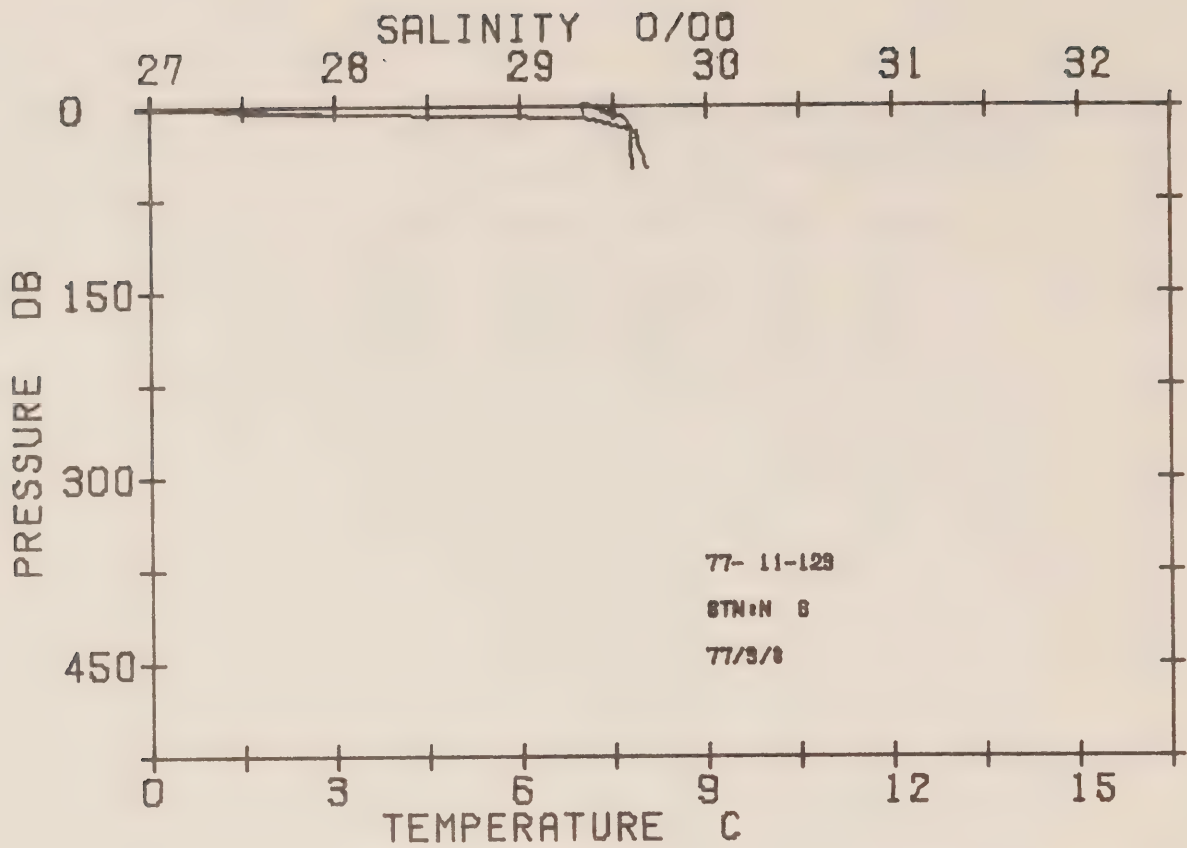


STATION N 8 CRUISE 77-11 CONS #119
 POSITION 50-32.4N 125-21.7W
 DATE 77/ 3/ 7 TIME 23:16:10 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	6.92	19.75	15.49	1459.
10	7.83	29.51	23.02	1475.
20	7.87	29.56	23.05	1476.
30	7.85	29.60	23.09	1476.

STATION N 7 CRUISE 77-11 CONS #121
 POSITION 50-31.7N 125-21.7W
 DATE 77/ 3/ 7 TIME 23:47:25 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	6.62	22.70	17.84	1462.
10	7.81	29.47	22.99	1475.
20	7.82	29.57	23.07	1476.
30	7.82	29.62	23.11	1476.

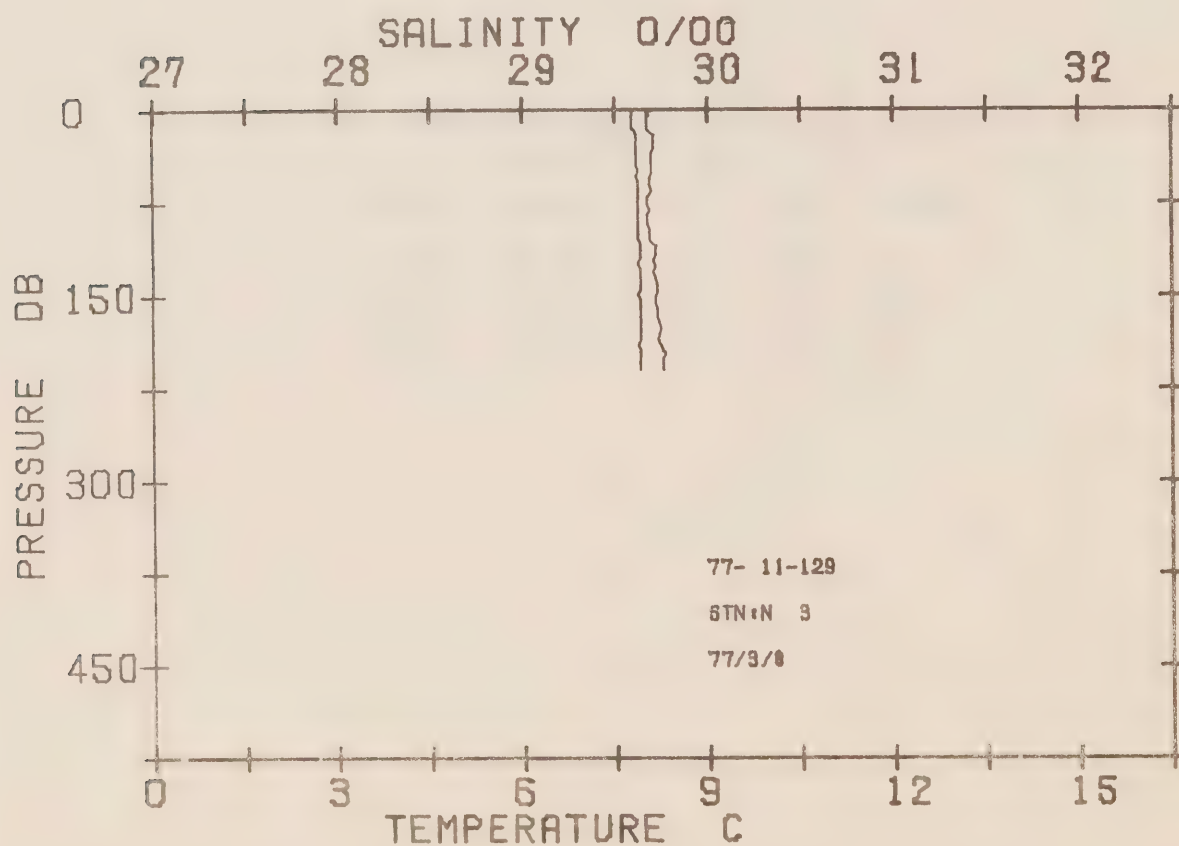
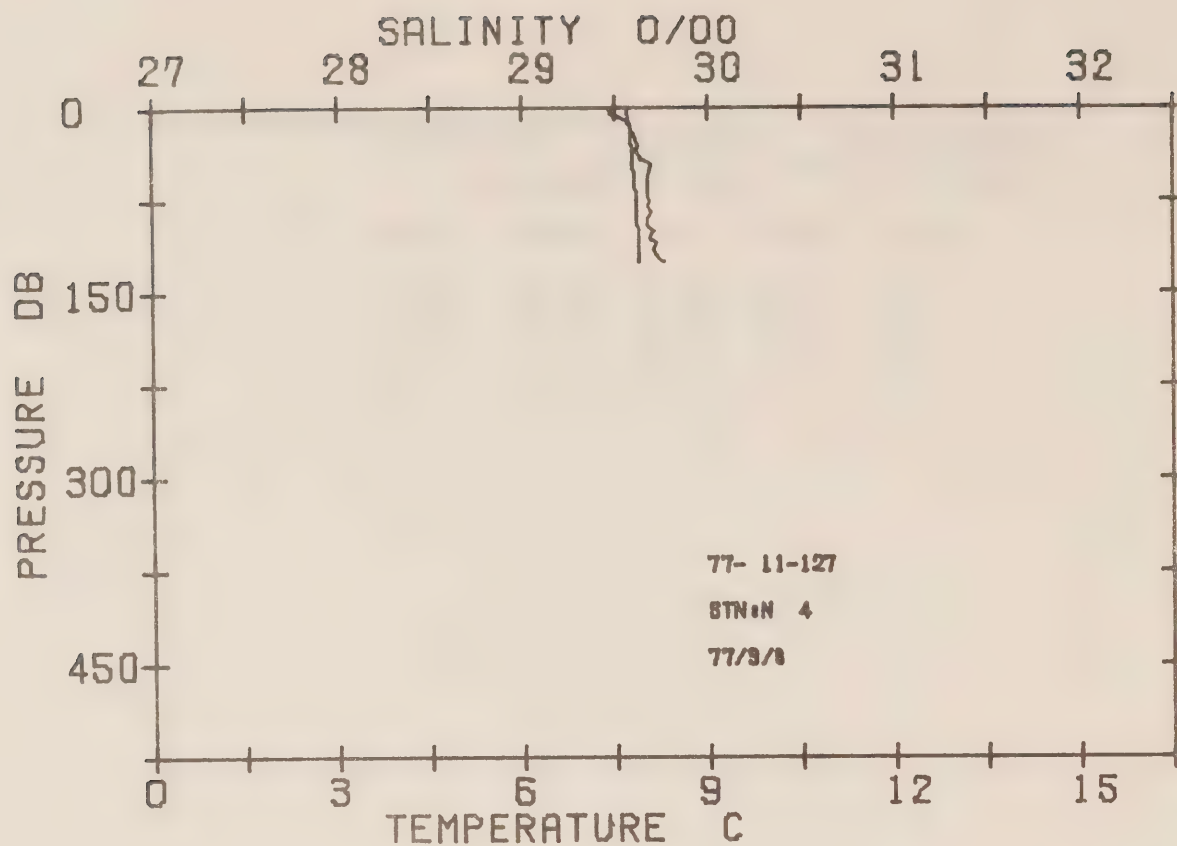


STATION N 6 CRUISE 77-11 CONS #123
 POSITION 50-31.0N 125-22.0W
 DATE 77/ 3/ 8 TIME 0:16:55 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.12	26.70	20.91	1469.
10	7.68	29.35	22.92	1475.
20	7.81	29.62	23.11	1476.
30	7.78	29.64	23.13	1476.
50	7.81	29.69	23.16	1476.

STATION N 5 CRUISE 77-11 CONS #125
 POSITION 50-29.7N 125-21.9W
 DATE 77/ 3/ 8 TIME 0:43:54 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.58	28.96	22.62	1473.
10	7.64	29.24	22.84	1474.
20	7.77	29.60	23.10	1475.
30	7.78	29.64	23.13	1476.
50	7.79	29.66	23.14	1476.

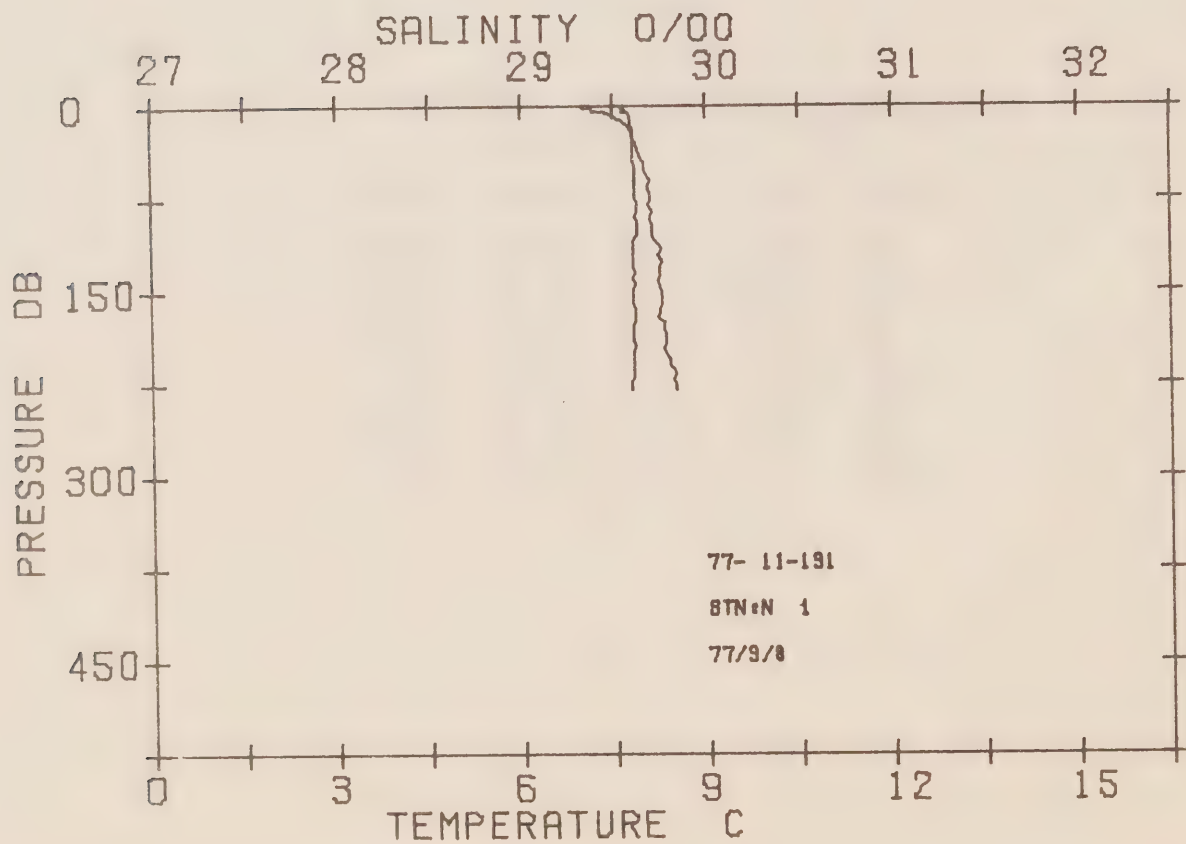
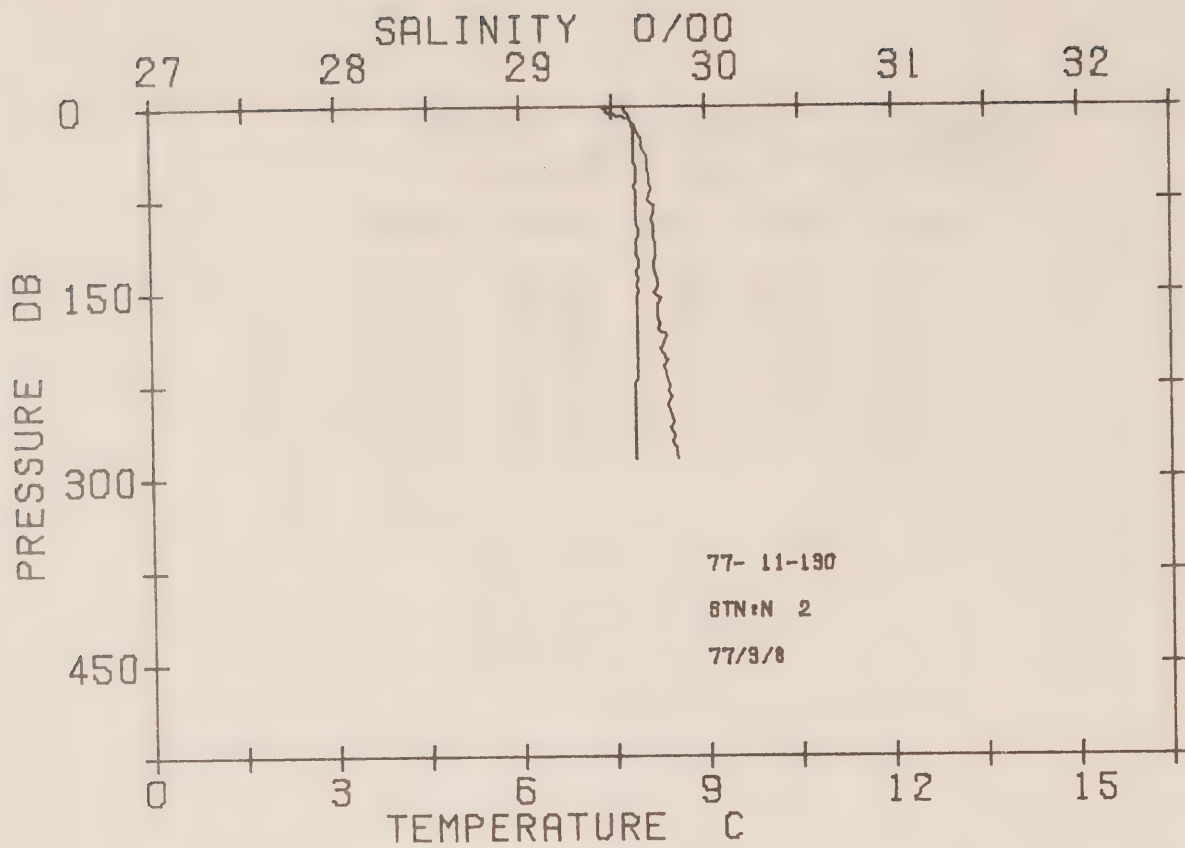


STATION N 4 CRUISE 77-11 CONS #127
 POSITION 50-28.5N 125-21.9W
 DATE 77/ 3/ 8 TIME 1:29:43 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.69	29.48	23.02	1475.
10	7.73	29.56	23.07	1475.
20	7.76	29.60	23.10	1475.
30	7.76	29.62	23.12	1475.
50	7.79	29.69	23.17	1476.
75	7.84	29.69	23.16	1477.
100	7.88	29.71	23.17	1477.
125	7.86	29.76	23.22	1478.

STATION N 3 CRUISE 77-11 CONS #129
 POSITION 50-27.2N 125-18.9W
 DATE 77/ 3/ 8 TIME 2:19:36 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.77	29.68	23.17	1475.
10	7.79	29.68	23.16	1475.
20	7.83	29.71	23.18	1476.
30	7.83	29.71	23.17	1476.
50	7.86	29.70	23.17	1476.
75	7.86	29.68	23.15	1477.
100	7.87	29.69	23.16	1477.
125	7.89	29.72	23.18	1478.
150	7.89	29.72	23.18	1478.
175	7.90	29.75	23.20	1479.
200	7.90	29.76	23.20	1479.

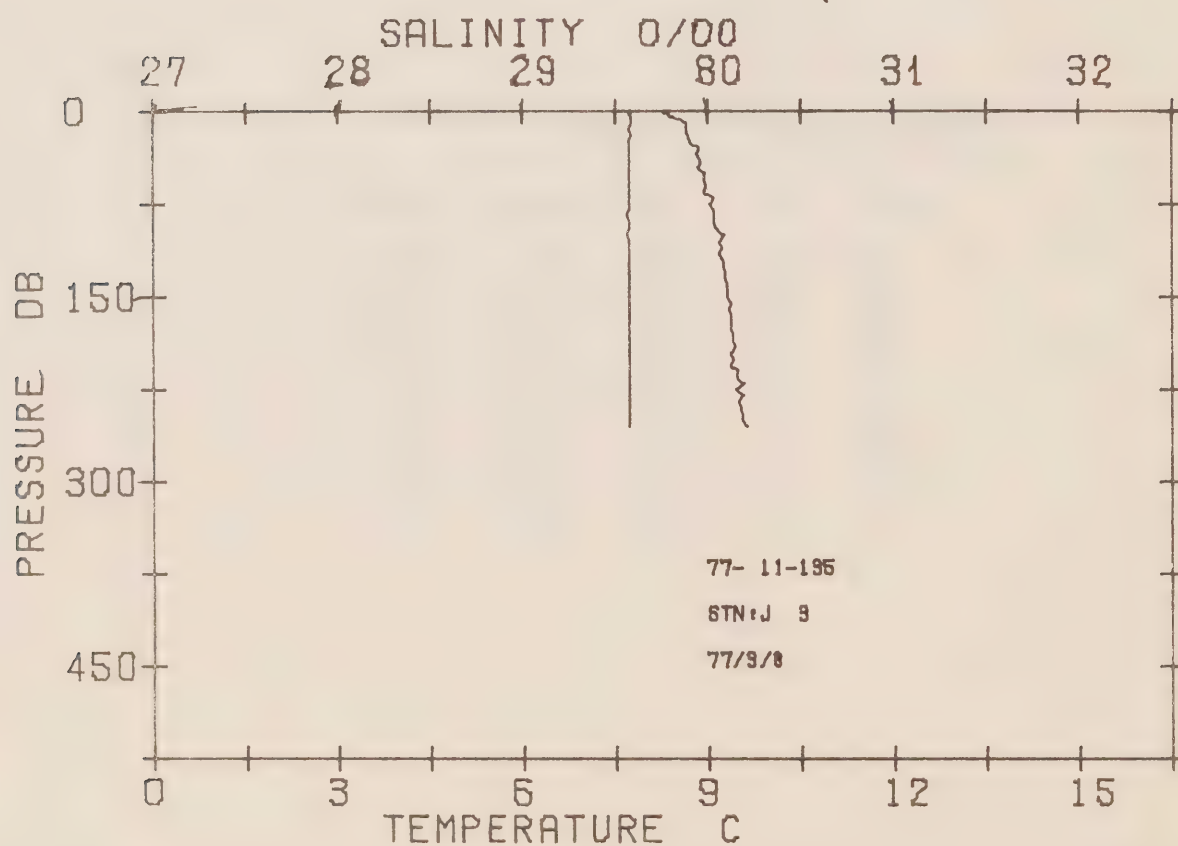
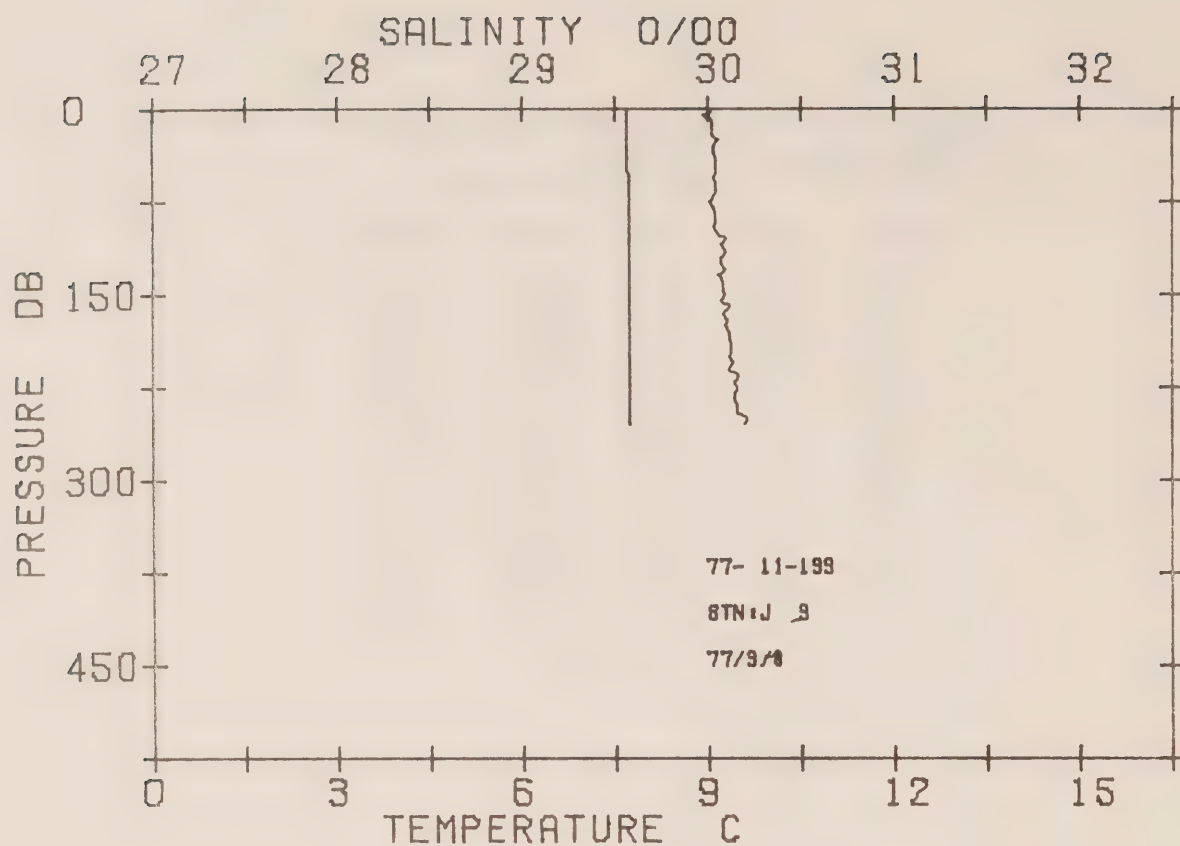


STATION N 2 CRUISE 77-11 CONS #130
 POSITION 50-25.5N 125-18.7W
 DATE 77/ 3/ 8 TIME 2:58:55 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.70	29.47	23.01	1475.
10	7.78	29.59	23.09	1475.
20	7.83	29.64	23.13	1476.
30	7.84	29.66	23.13	1476.
50	7.86	29.69	23.16	1476.
75	7.87	29.69	23.16	1477.
100	7.90	29.72	23.17	1477.
125	7.90	29.72	23.18	1478.
150	7.90	29.72	23.18	1478.
175	7.89	29.75	23.20	1479.
200	7.86	29.77	23.22	1479.
225	7.85	29.80	23.25	1479.
250	7.84	29.81	23.25	1480.
275	7.83	29.83	23.27	1480.

STATION N 1 CRUISE 77-11 CONS #131
 POSITION 50-23.0N 125-20.5W
 DATE 77/ 3/ 8 TIME 3:44:19 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.65	29.37	22.94	1474.
10	7.77	29.52	23.03	1475.
20	7.80	29.60	23.09	1475.
30	7.81	29.62	23.11	1476.
50	7.83	29.67	23.14	1476.
75	7.85	29.70	23.17	1477.
100	7.86	29.71	23.17	1477.
125	7.82	29.76	23.22	1477.
150	7.82	29.76	23.22	1478.
175	7.83	29.77	23.23	1478.
200	7.82	29.78	23.23	1479.
225	7.79	29.83	23.27	1479.

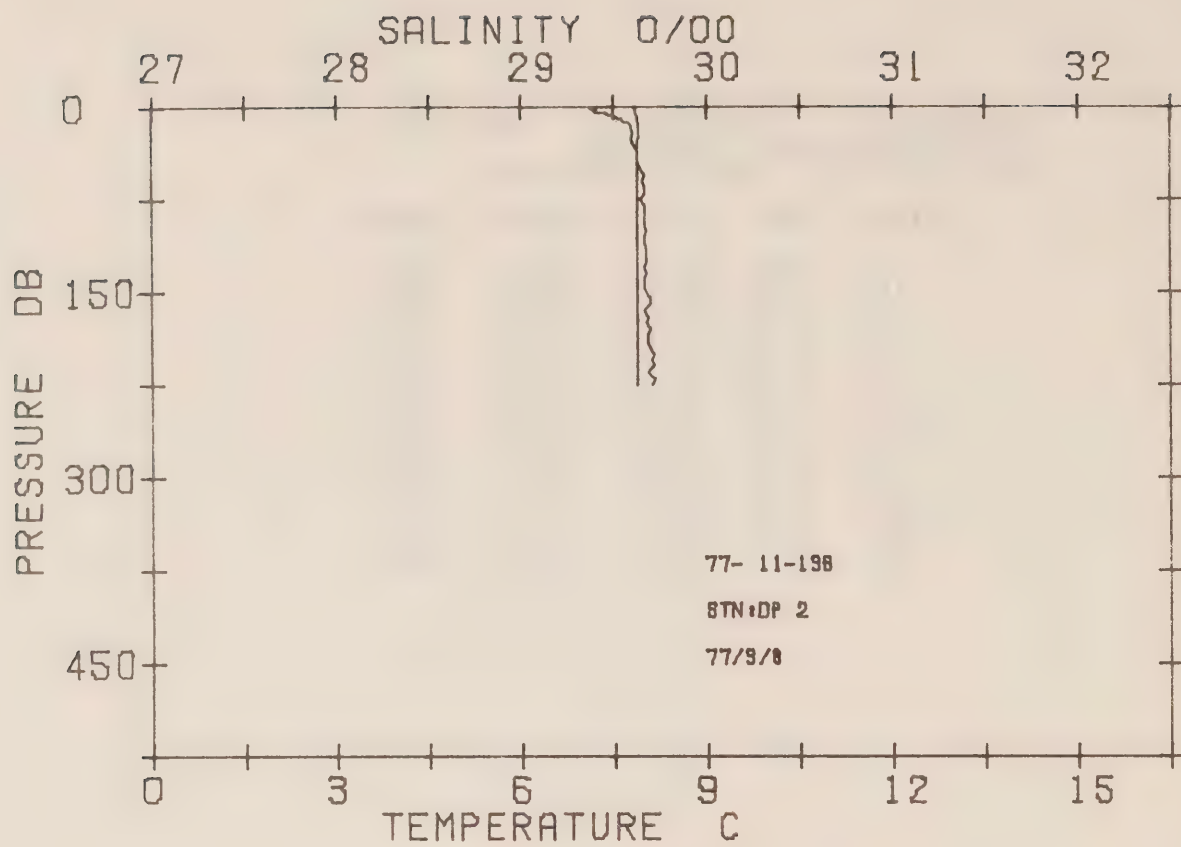


STATION J 3 CRUISE 77-11 CONS #133
 POSITION 50-22.2N 125-39.0W
 DATE 77/ 3/ 8 TIME 5:54:49 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.69	30.00	23.43	1475.
10	7.68	30.02	23.44	1475.
20	7.69	30.02	23.44	1476.
30	7.70	30.03	23.45	1476.
50	7.70	30.04	23.45	1476.
75	7.72	30.01	23.43	1477.
100	7.71	30.05	23.46	1477.
125	7.72	30.07	23.48	1477.
150	7.72	30.09	23.49	1478.
175	7.72	30.09	23.49	1478.
200	7.73	30.11	23.50	1479.
225	7.71	30.16	23.55	1479.
250	7.71	30.21	23.58	1480.

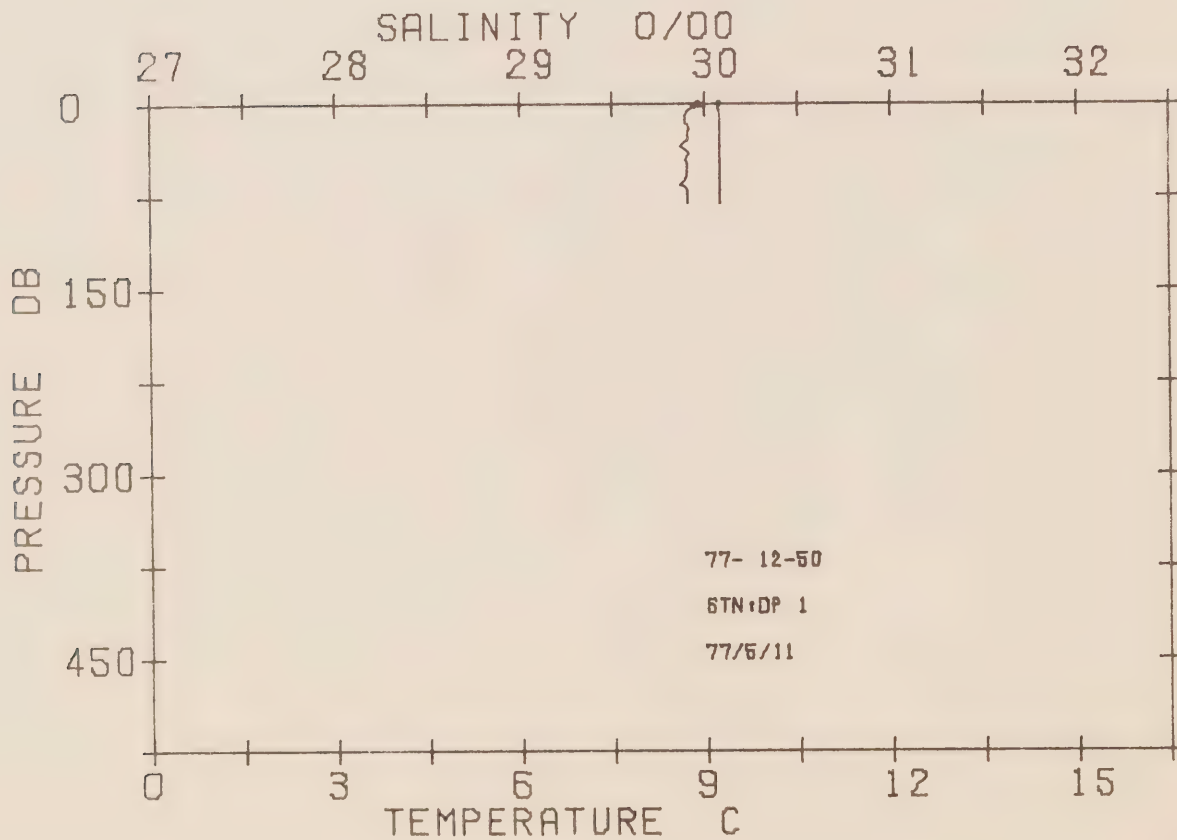
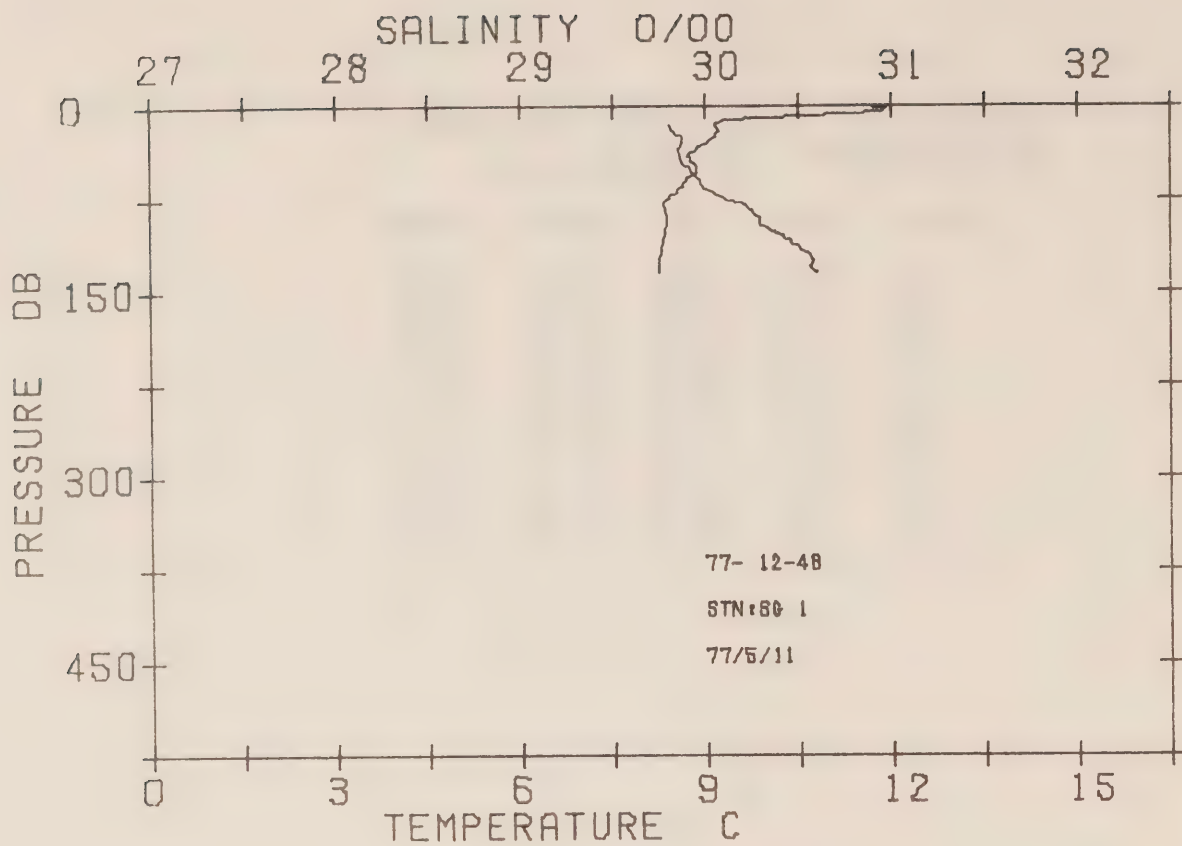
STATION J 3 CRUISE 77-11 CONS #135
 POSITION 50-22.2N 125-39.0W
 DATE 77/ 3/ 8 TIME 7: 1:46 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.75	29.79	23.25	1475.
10	7.74	29.89	23.33	1475.
20	7.74	29.90	23.34	1476.
30	7.71	29.95	23.39	1476.
50	7.71	29.99	23.40	1476.
75	7.71	30.01	23.43	1477.
100	7.70	30.08	23.49	1477.
125	7.71	30.08	23.48	1477.
150	7.72	30.10	23.50	1478.
175	7.72	30.12	23.52	1478.
200	7.72	30.14	23.53	1479.
225	7.72	30.16	23.55	1479.
250	7.71	30.19	23.57	1480.



STATION DP 2 CRUISE 77-11 CONS #136
POSITION 50-14.7N 125-23.0W
DATE 77/ 3/ 8 TIME 14:59:46 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.82	29.38	22.92	1475.
10	7.89	29.54	23.04	1476.
20	7.91	29.60	23.08	1476.
30	7.89	29.60	23.08	1476.
50	7.87	29.65	23.12	1476.
75	7.88	29.65	23.12	1477.
100	7.87	29.68	23.15	1477.
125	7.88	29.68	23.14	1478.
150	7.89	29.68	23.14	1478.
175	7.87	29.68	23.14	1478.
200	7.87	29.72	23.18	1479.
225	7.87	29.71	23.17	1479.

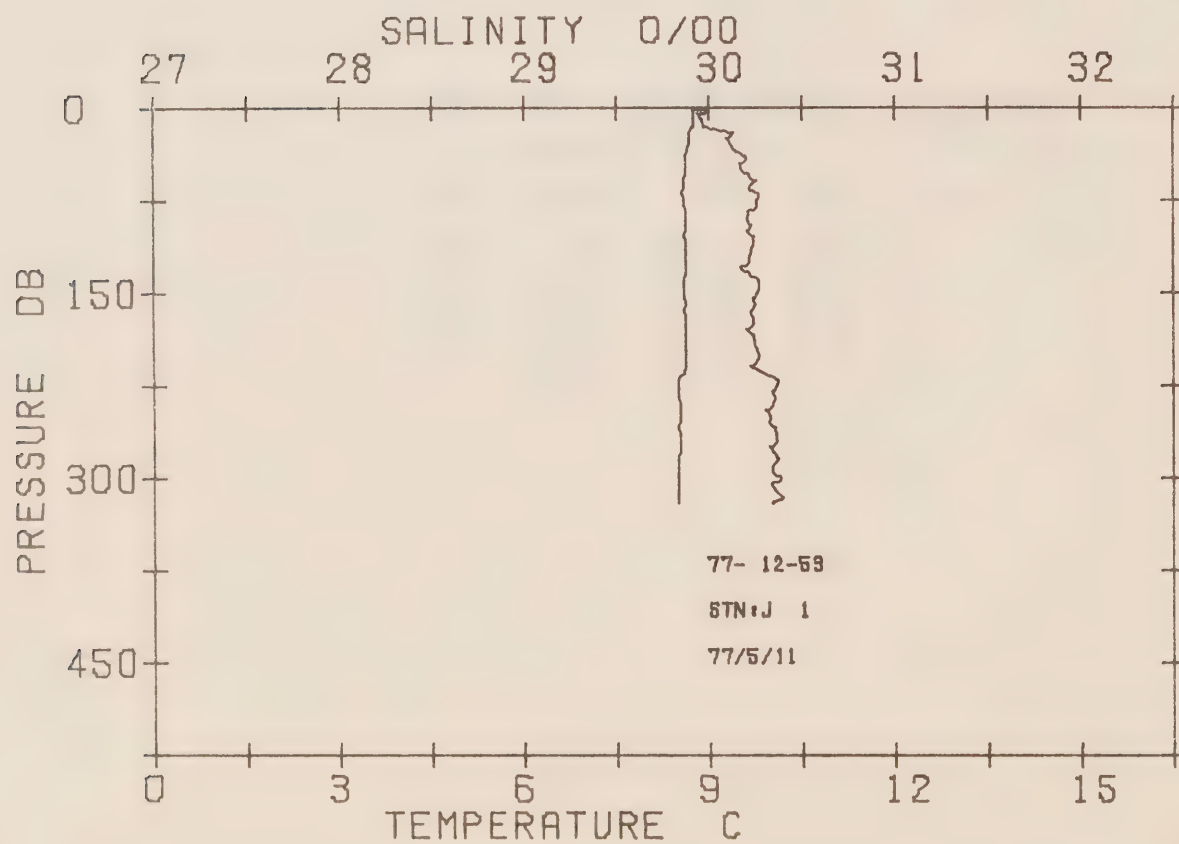
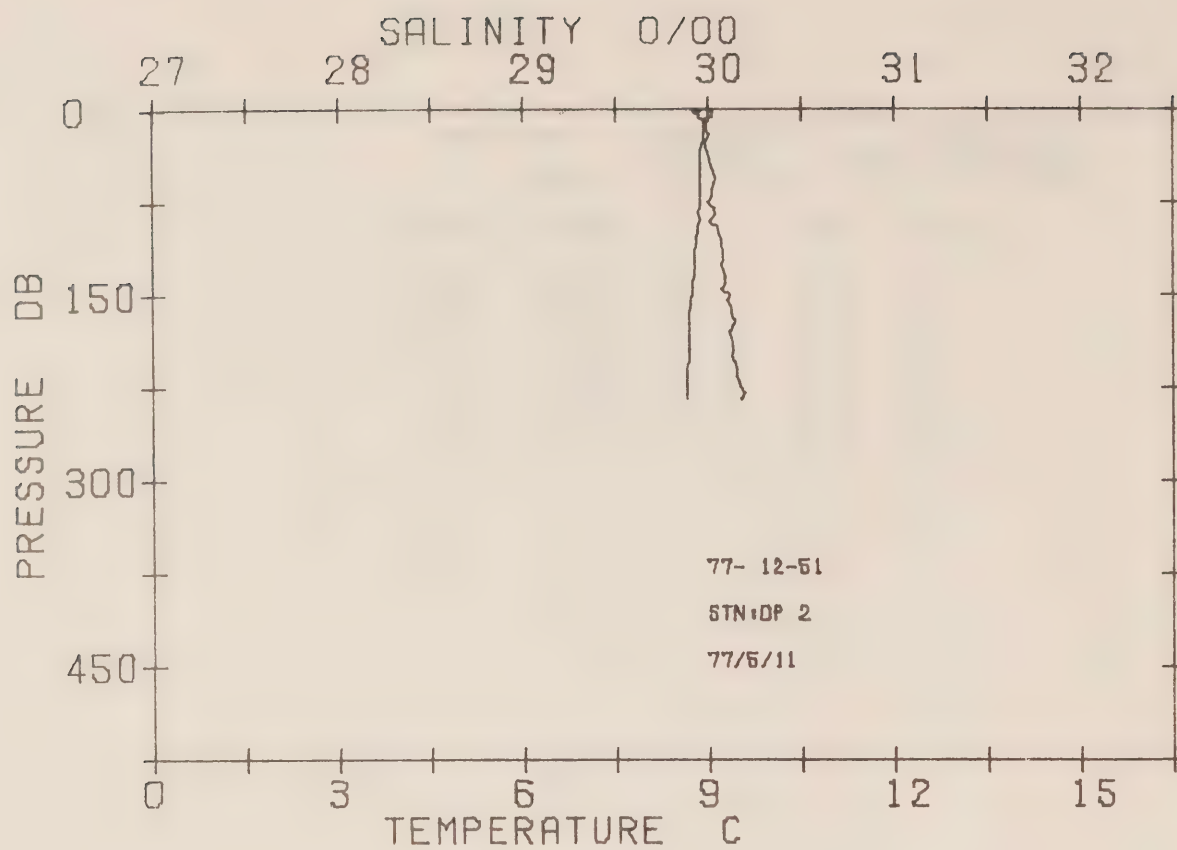


STATION SG 1 CRUISE 77-12 CONS # 48
 POSITION 49-55.0N 125- 5.5W
 DATE 77/ 5/11 TIME 19: 3: 7 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	11.76	- .97	-1.17	1453.
10	9.31	18.69	14.40	1467.
20	9.23	29.83	23.07	1481.
30	9.07	29.87	23.13	1481.
50	8.86	29.92	23.19	1480.
75	8.41	30.10	23.40	1479.
100	8.33	30.37	23.63	1480.
125	8.26	30.58	23.80	1480.

STATION DP 1 CRUISE 77-12 CONS # 50
 POSITION 50- 5.1N 126-16.4W
 DATE 77/ 5/11 TIME 20:57:41 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.24	29.96	23.17	1481.
10	9.24	29.90	23.12	1481.
20	9.24	29.92	23.14	1481.
30	9.24	29.91	23.13	1482.
50	9.25	29.91	23.13	1482.
75	9.24	29.91	23.13	1482.

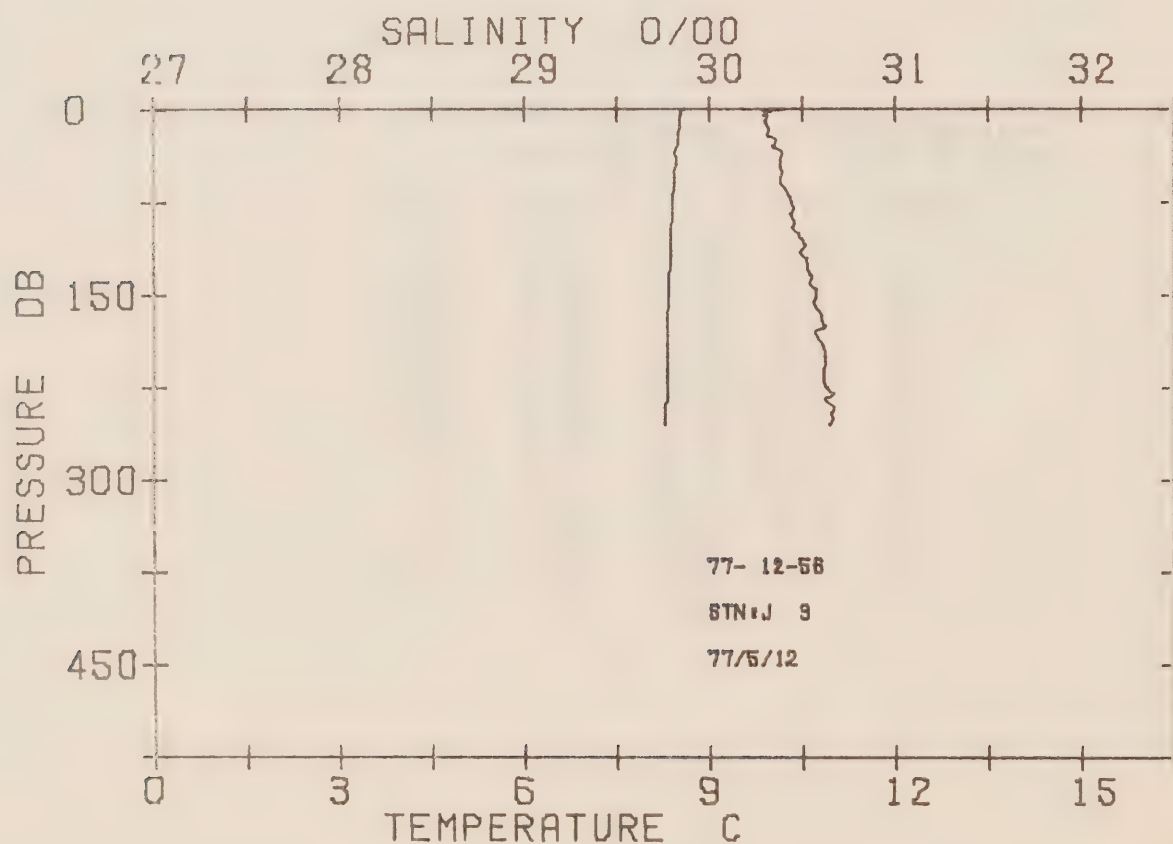
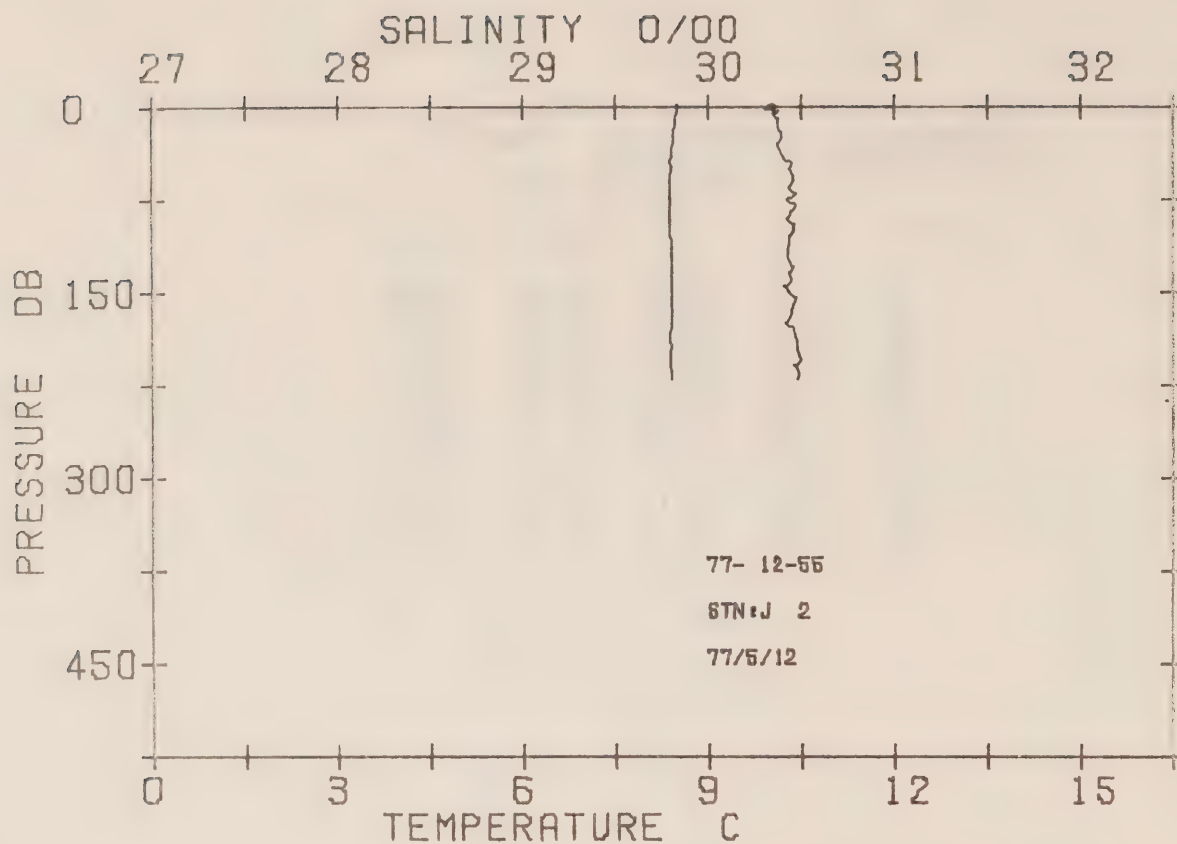


STATION DP 2 CRUISE 77-12 CONS # 51
 POSITION 50-14.7N 125-23.0W
 DATE 77/ 5/11 TIME 22:16:18 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	9.05	29.97	23.21	1480.
10	8.95	29.99	23.23	1480.
20	8.94	30.01	23.25	1480.
30	8.92	29.99	23.24	1480.
50	8.87	30.03	23.28	1481.
75	8.88	30.00	23.26	1481.
100	8.84	30.06	23.31	1481.
125	8.78	30.07	23.33	1482.
150	8.74	30.11	23.36	1482.
175	8.69	30.14	23.39	1482.
200	8.69	30.13	23.38	1482.
225	8.65	30.18	23.43	1483.

STATION J 1 CRUISE 77-12 CONS # 53
 POSITION 50-20.7N 125-25.5W
 DATE 77/ 5/11 TIME 23:32: 6 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.78	29.96	23.24	1479.
10	8.76	29.97	23.25	1479.
20	8.68	30.14	23.39	1480.
30	8.68	30.13	23.39	1480.
50	8.63	30.18	23.43	1480.
75	8.58	30.26	23.50	1480.
100	8.63	30.21	23.46	1481.
125	8.64	30.22	23.46	1481.
150	8.58	30.26	23.50	1481.
175	8.63	30.24	23.48	1482.
200	8.61	30.27	23.50	1482.
225	8.50	30.36	23.59	1482.
250	8.52	30.33	23.57	1483.
275	8.53	30.33	23.56	1483.
300	8.51	30.39	23.61	1484.

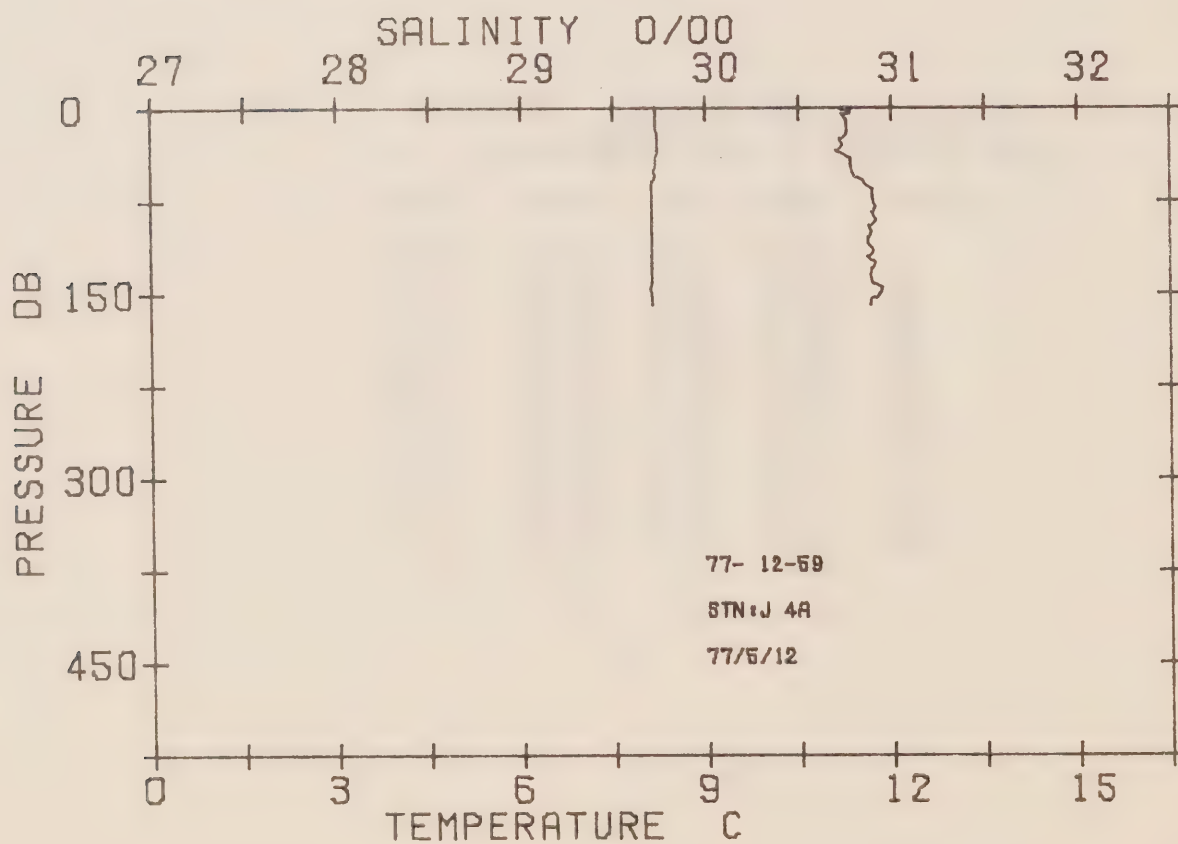
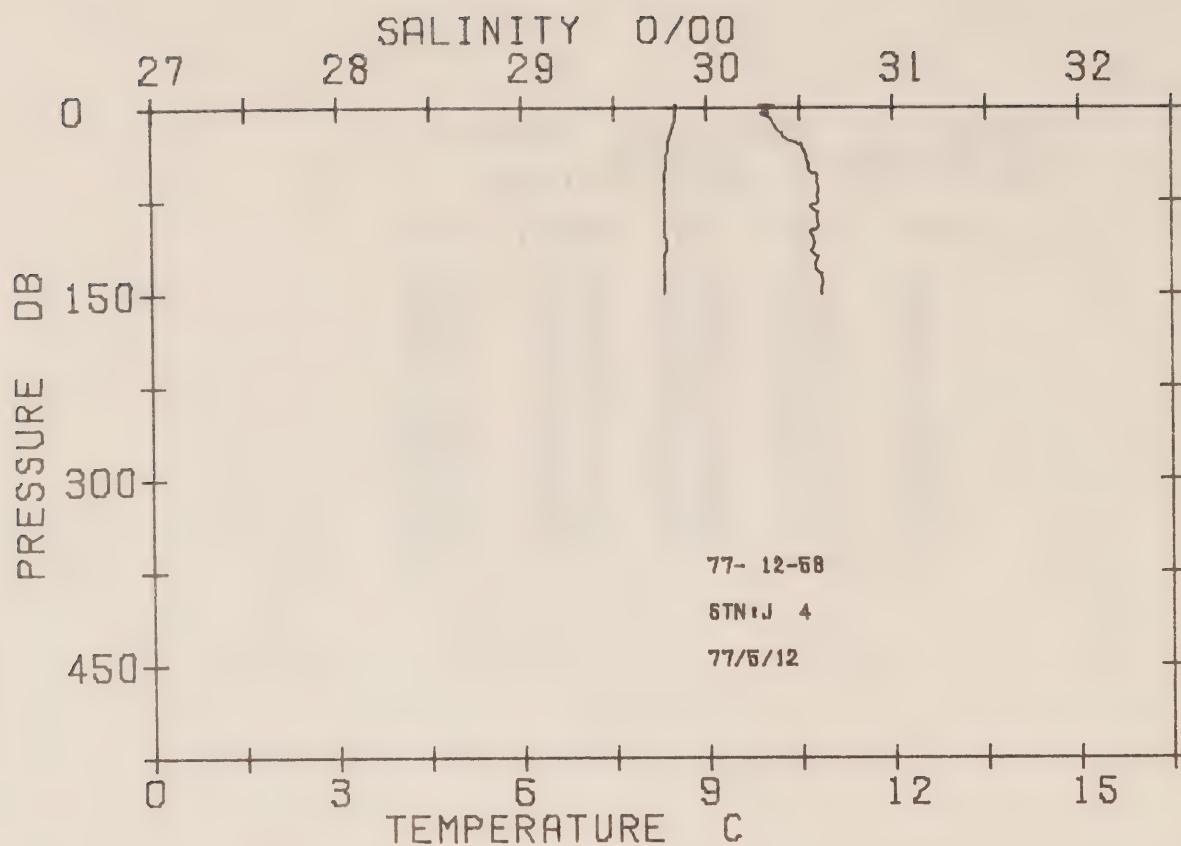


STATION J 2 CRUISE 77-12 CONS # 55
 POSITION 50-22.2N 125-33.5W
 DATE 77/ 5/12 TIME 1: 3: 4 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.50	30.33	23.57	1479.
10	8.48	30.37	23.60	1479.
20	8.45	30.40	23.63	1479.
30	8.44	30.37	23.61	1479.
50	8.40	30.44	23.67	1479.
75	8.39	30.43	23.66	1480.
100	8.39	30.46	23.68	1480.
125	8.40	30.44	23.67	1481.
150	8.40	30.44	23.67	1481.
175	8.41	30.42	23.65	1481.
200	8.39	30.49	23.71	1482.

STATION J 3 CRUISE 77-12 CONS # 56
 POSITION 50-22.2N 125-39.0W
 DATE 77/ 5/12 TIME 1:50:53 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.61	30.33	23.55	1479.
10	8.54	30.30	23.54	1479.
20	8.51	30.31	23.55	1479.
30	8.49	30.34	23.58	1479.
50	8.45	30.40	23.63	1479.
75	8.41	30.45	23.67	1480.
100	8.38	30.48	23.70	1480.
125	8.37	30.53	23.74	1481.
150	8.34	30.57	23.77	1481.
175	8.32	30.62	23.82	1481.
200	8.31	30.62	23.82	1482.
225	8.30	30.64	23.84	1482.
250	8.28	30.67	23.86	1482.

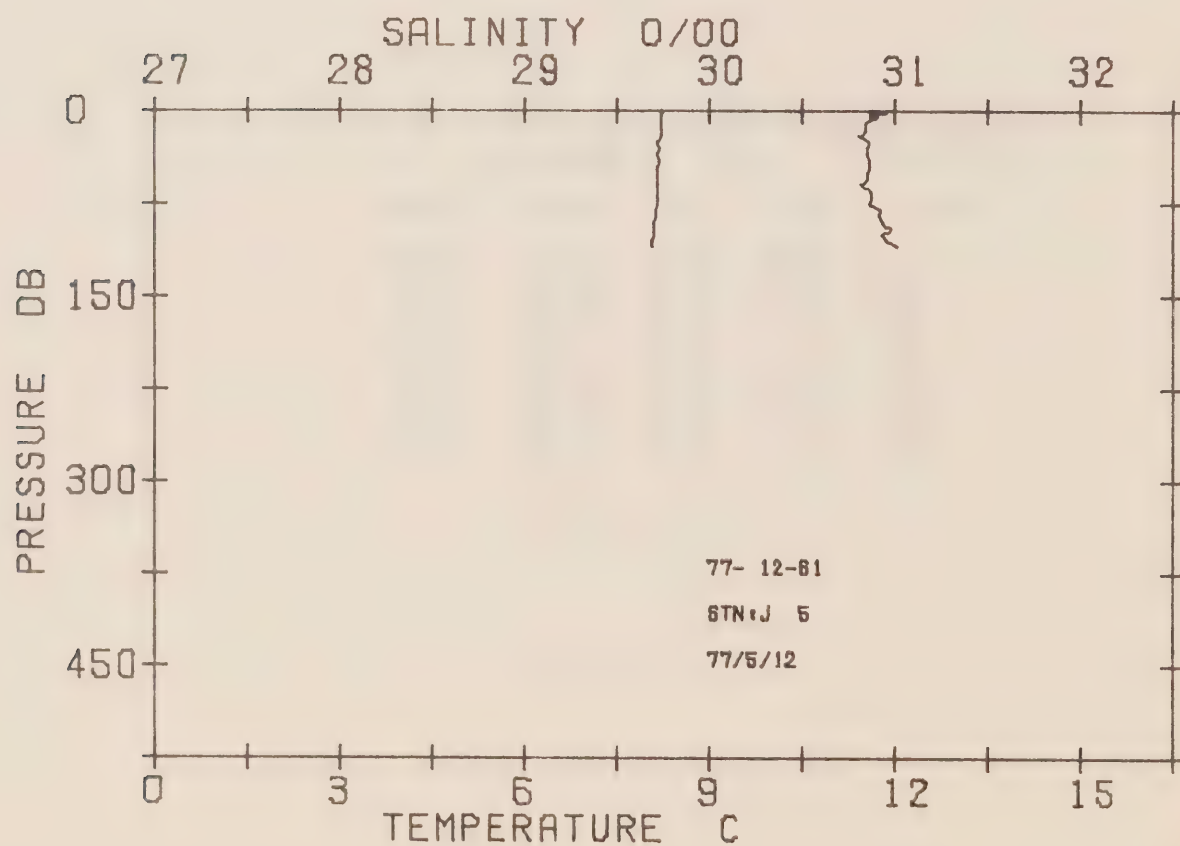
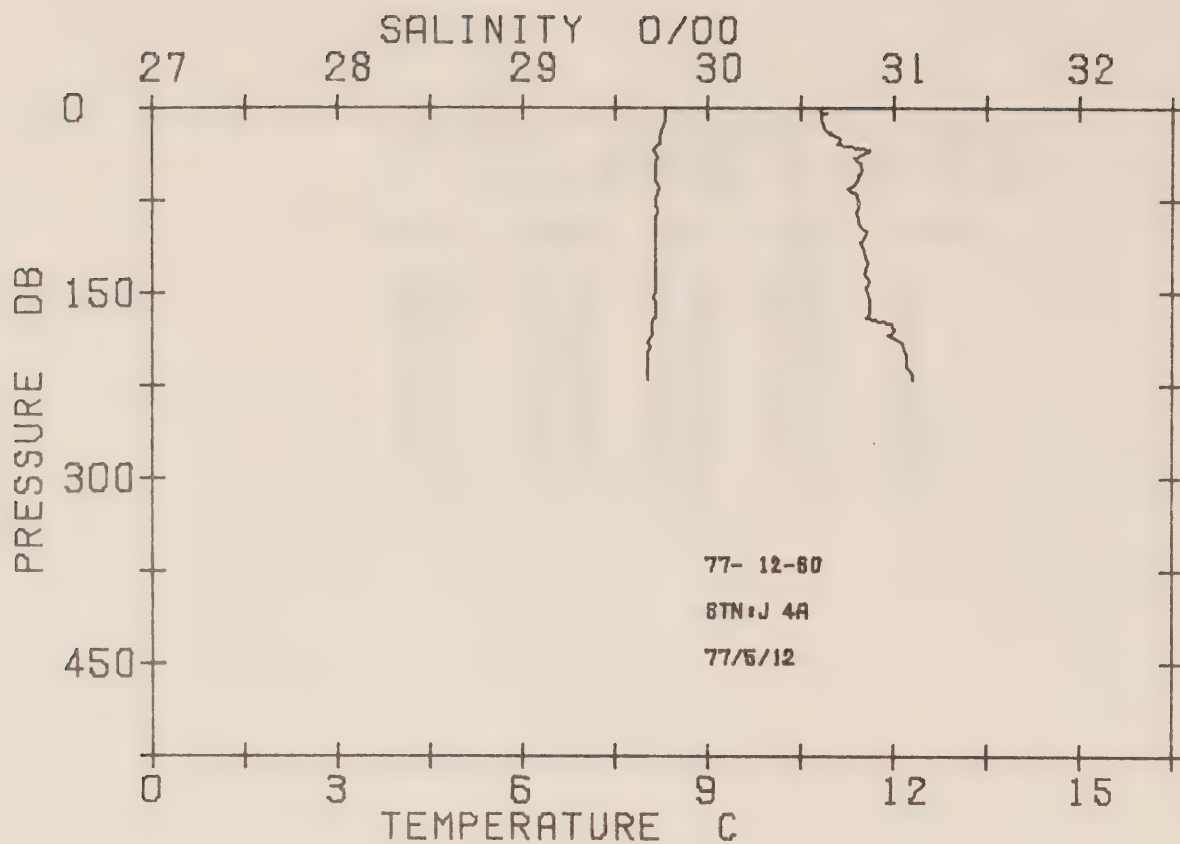


STATION J 4 CRUISE 77-12 CONS # 58
 POSITION 50-22.7N 125-47.0W
 DATE 77/ 5/12 TIME 3:14:36 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.50	30.31	23.55	1479.
10	8.49	30.35	23.59	1479.
20	8.44	30.41	23.64	1479.
30	8.37	30.51	23.73	1479.
50	8.33	30.55	23.77	1479.
75	8.31	30.60	23.80	1480.
100	8.32	30.56	23.77	1480.
125	8.32	30.58	23.79	1480.
150	8.32	30.61	23.81	1481.

STATION J 4A CRUISE 77-12 CONS # 59
 POSITION 50-23.5N 125-53.4W
 DATE 77/ 5/12 TIME 4:26:58 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.20	30.77	23.95	1478.
10	8.20	30.76	23.95	1478.
20	8.21	30.76	23.95	1479.
30	8.21	30.74	23.93	1479.
50	8.17	30.79	23.97	1479.
75	8.13	30.91	24.08	1479.
100	8.13	30.90	24.06	1480.
125	8.13	30.92	24.08	1480.
150	8.12	30.94	24.10	1481.

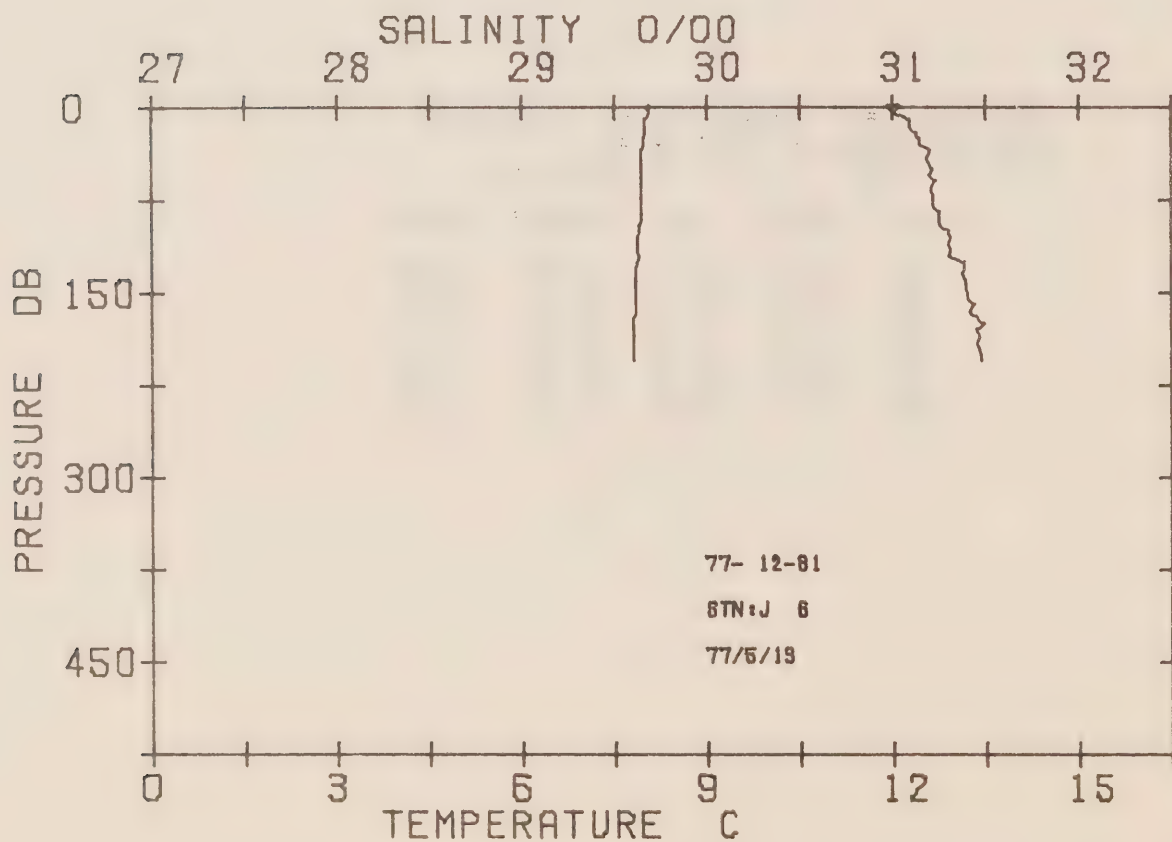
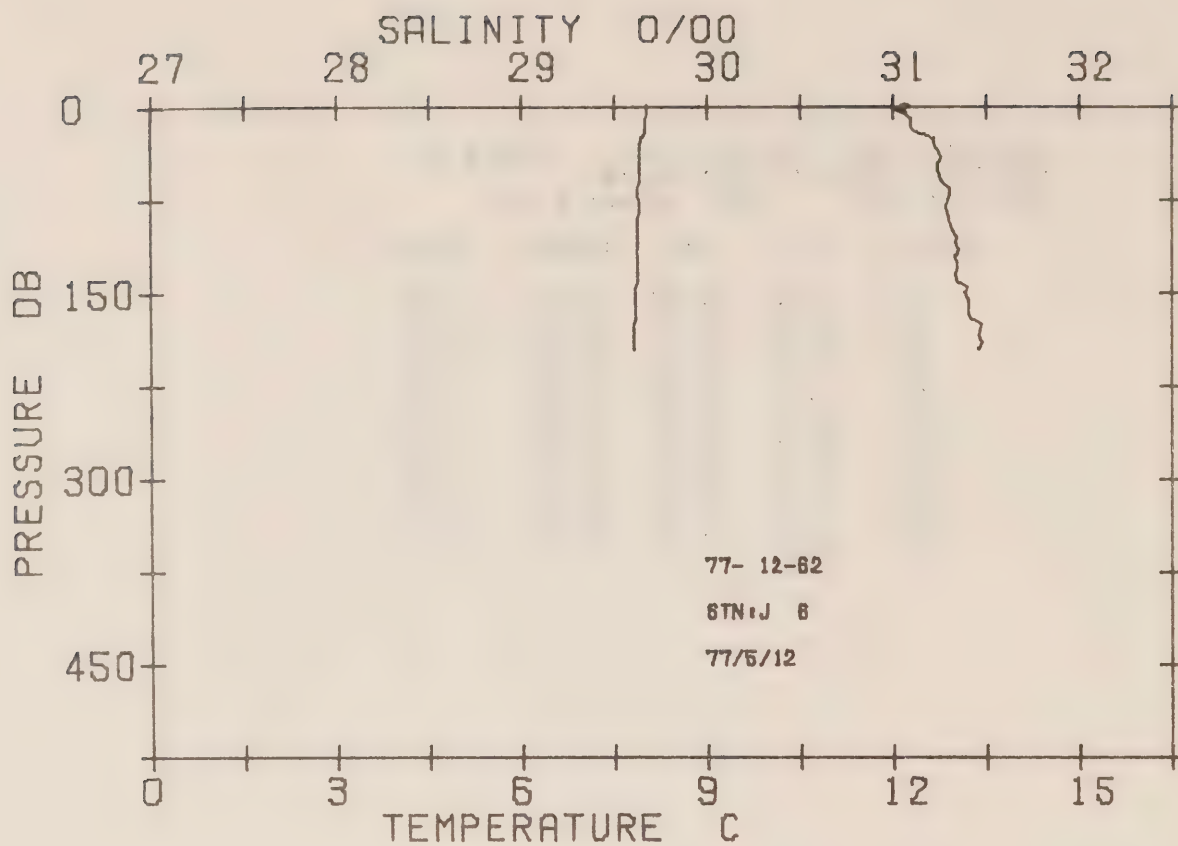


STATION J 4A CRUISE 77-12 CONS # 60
 POSITION 50-23.5N 125-53.4W
 DATE 77/ 5/12 TIME 9:45: 8 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.31	30.60	23.81	1478.
10	8.30	30.61	23.81	1479.
20	8.26	30.66	23.86	1479.
30	8.23	30.70	23.90	1479.
50	8.16	30.83	24.01	1479.
75	8.17	30.81	23.99	1479.
100	8.15	30.85	24.03	1480.
125	8.15	30.86	24.04	1480.
150	8.15	30.86	24.03	1481.
175	8.09	30.99	24.14	1481.
200	8.03	31.07	24.21	1481.

STATION J 5 CRUISE 77-12 CONS # 61
 POSITION 50-24.5N 125-56.8W
 DATE 77/ 5/12 TIME 10:16:54 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.23	30.91	24.06	1479.
10	8.22	30.84	24.01	1479.
20	8.21	30.81	23.99	1479.
30	8.18	30.85	24.02	1479.
50	8.16	30.85	24.02	1479.
75	8.15	30.86	24.03	1479.
100	8.09	30.94	24.10	1480.

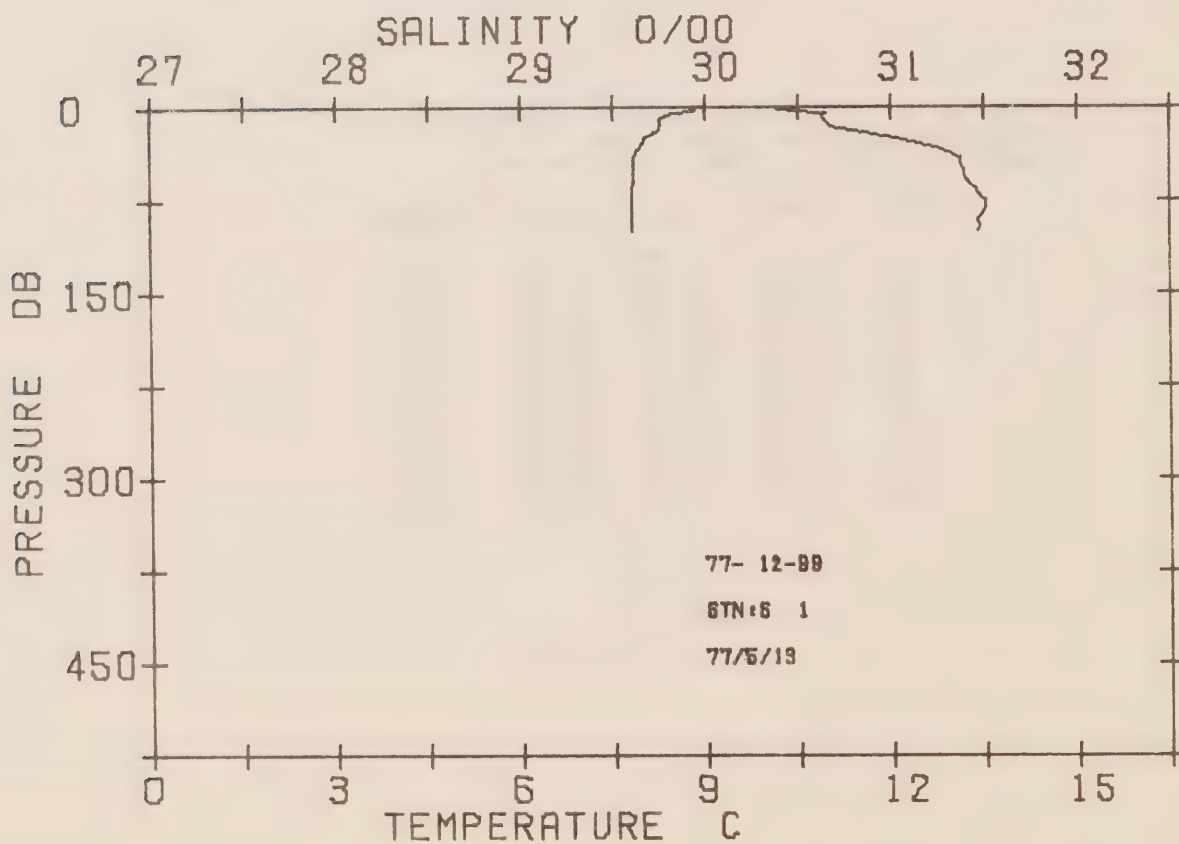
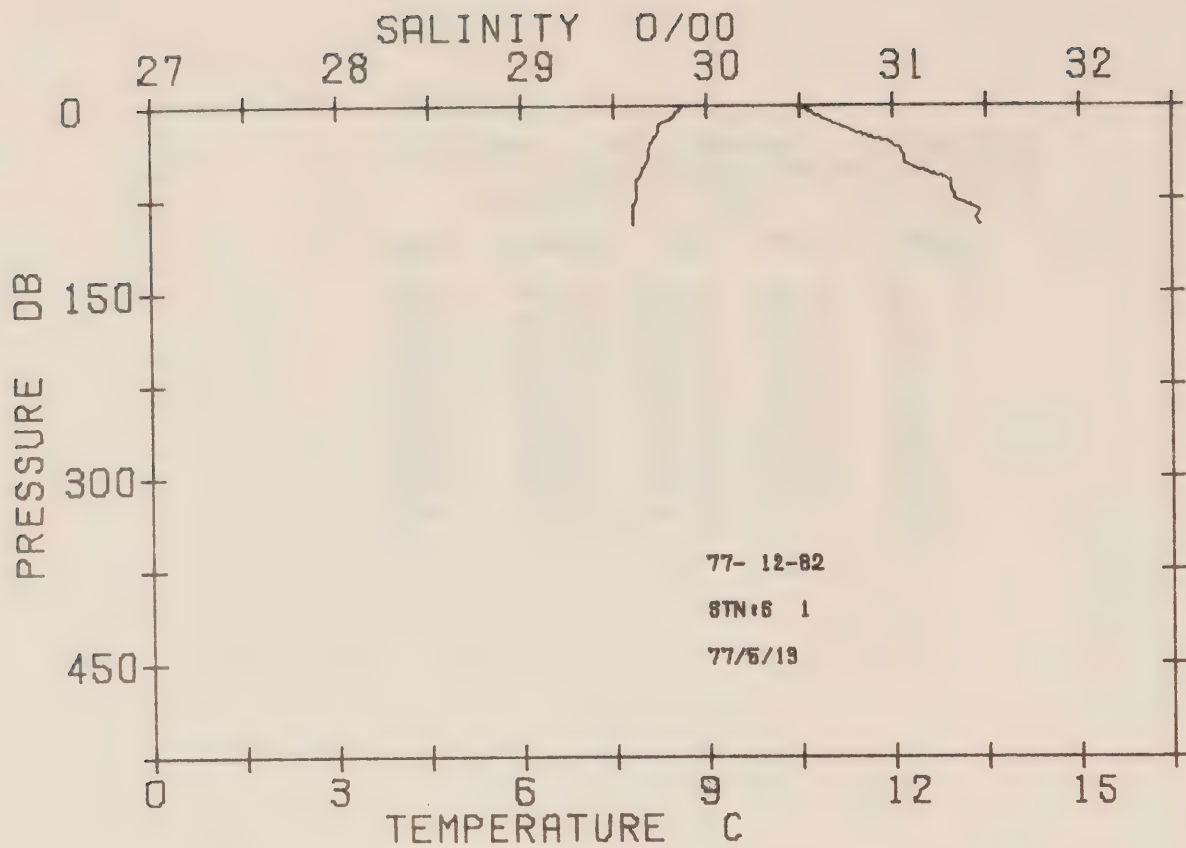


STATION J 6 CRUISE 77-12 CONS # 62
 POSITION 50-26.4N 126- .7W
 DATE 77/ 5/12 TIME 14:17:23 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.04	31.03	24.18	1478.
10	8.01	31.09	24.23	1478.
20	7.99	31.12	24.26	1478.
30	7.91	31.22	24.35	1478.
50	7.92	31.24	24.36	1479.
75	7.90	31.29	24.40	1479.
100	7.88	31.32	24.43	1479.
125	7.87	31.34	24.44	1480.
150	7.84	31.39	24.49	1480.
175	7.82	31.48	24.57	1480.

STATION J 6 CRUISE 77-12 CONS # 81
 POSITION 50-26.4N 126- .7W
 DATE 77/ 5/13 TIME 1:57:39 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.06	31.00	24.16	1478.
10	8.00	31.09	24.23	1478.
20	8.00	31.12	24.26	1478.
30	7.98	31.15	24.28	1478.
50	7.95	31.22	24.35	1479.
75	7.93	31.22	24.34	1479.
100	7.91	31.30	24.41	1479.
125	7.86	31.39	24.49	1480.
150	7.85	31.41	24.50	1480.
175	7.82	31.49	24.57	1480.
200	7.82	31.48	24.56	1481.

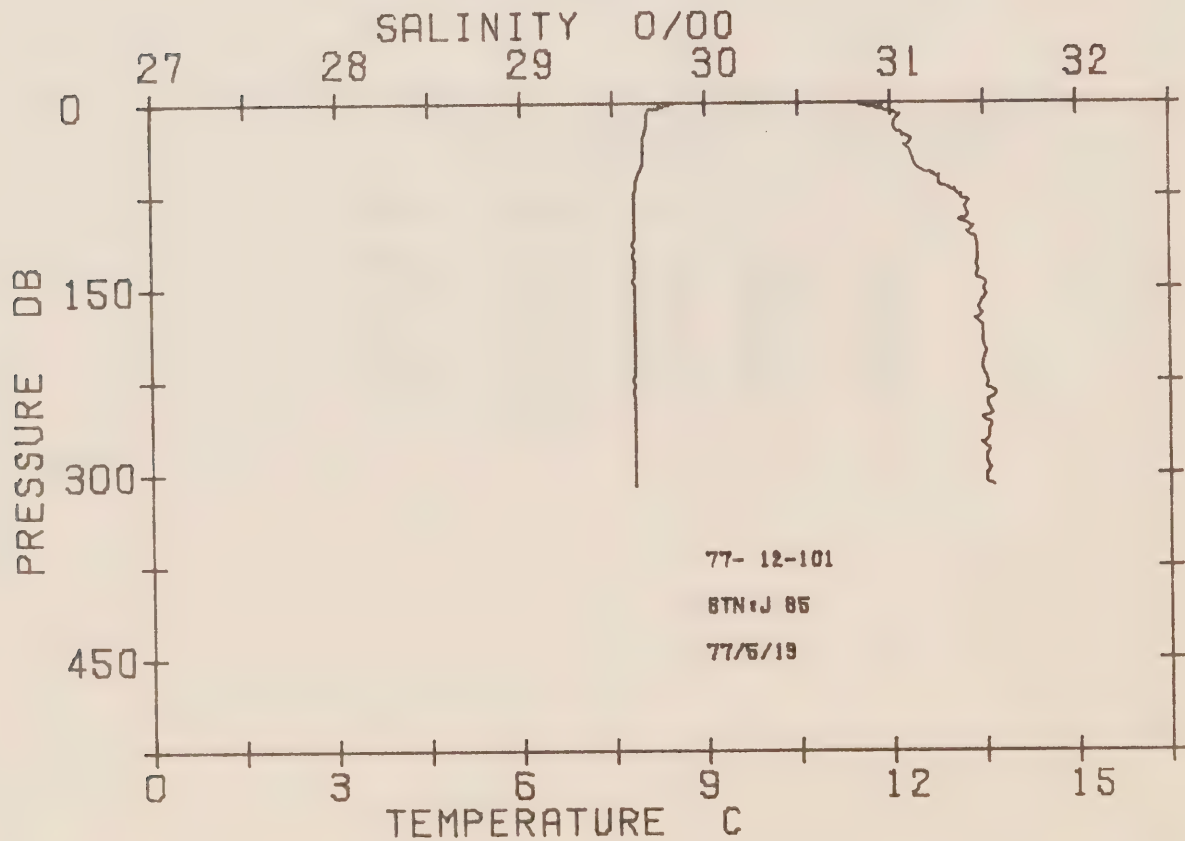
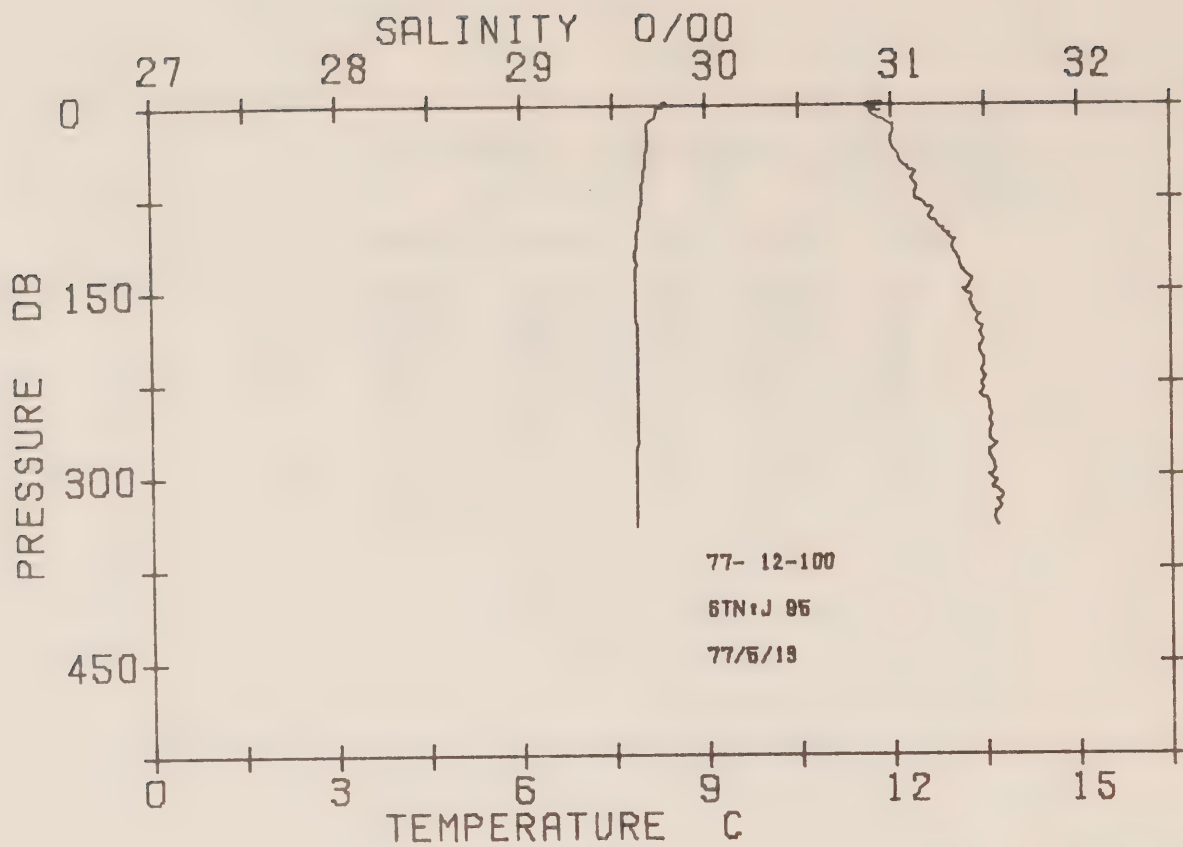


STATION S 1 CRUISE 77-12 CONS # 82
 POSITION 50-27.7N 125-59.3W
 DATE 77/ 5/13 TIME 3: 1:52 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.58	30.55	23.73	1479.
10	8.44	30.61	23.80	1479.
20	8.22	30.79	23.97	1479.
30	8.09	31.00	24.15	1479.
50	7.98	31.13	24.27	1479.
75	7.87	31.33	24.44	1479.

STATION S 1 CRUISE 77-12 CONS # 99
 POSITION 50-27.7N 125-59.3W
 DATE 77/ 5/13 TIME 13:56:19 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.75	30.46	23.63	1480.
10	8.29	30.65	23.85	1479.
20	8.18	30.86	24.03	1479.
30	7.96	31.17	24.30	1478.
50	7.85	31.40	24.50	1478.
75	7.80	31.51	24.59	1479.
100	7.80	31.47	24.56	1479.

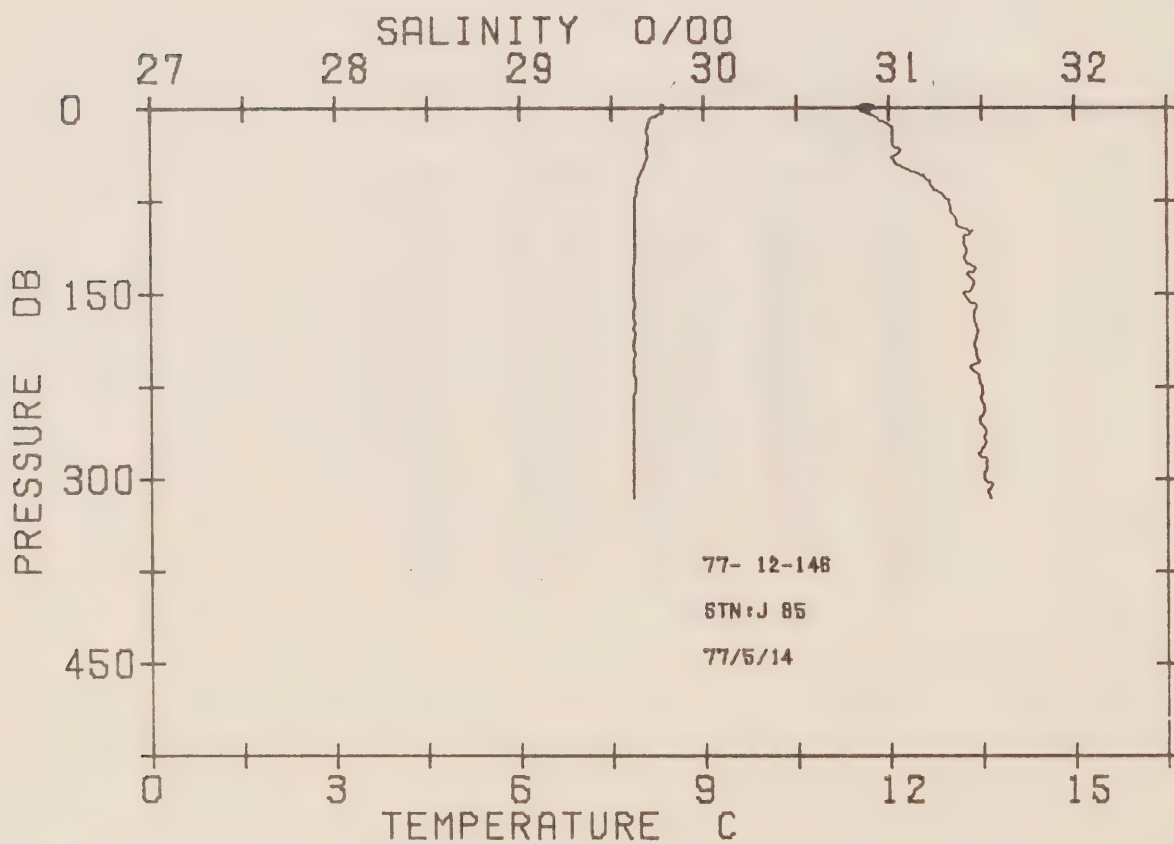
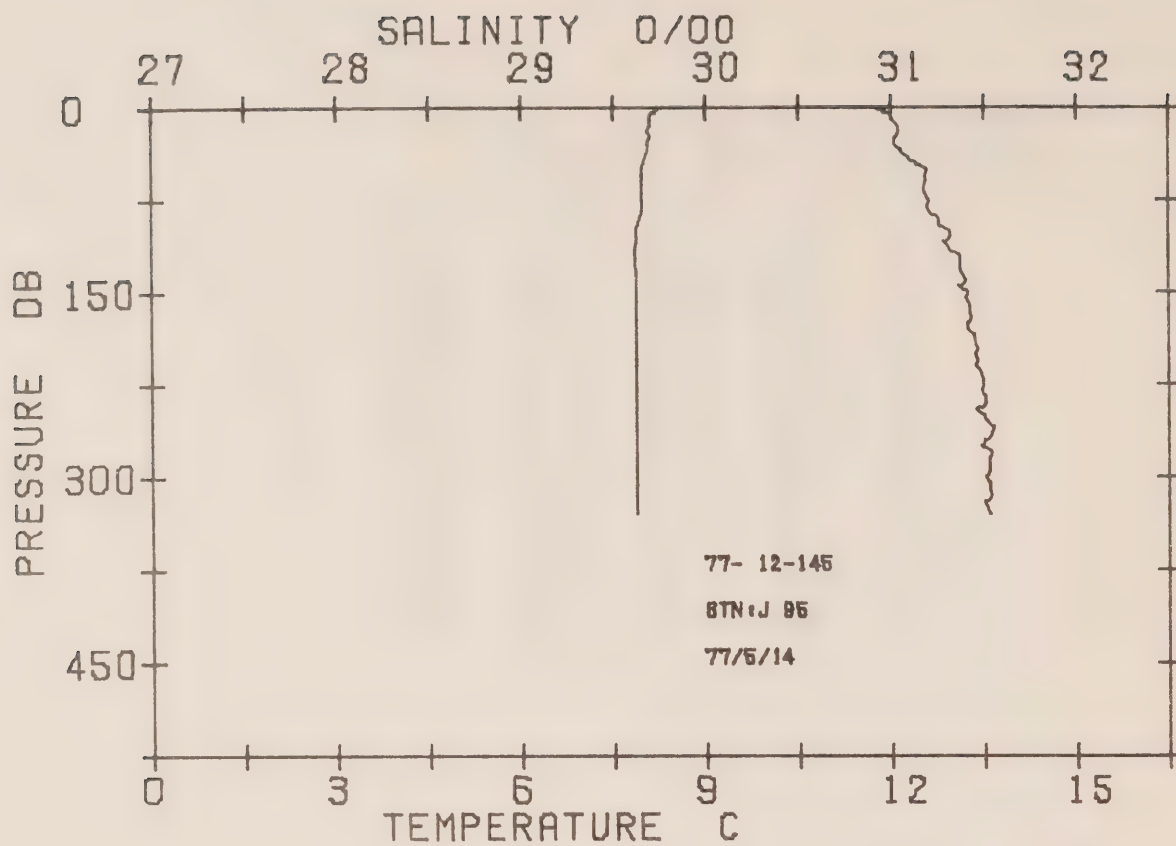


STATION J 95 CRUISE 77-12 CONS #100
 POSITION 50-28.7N 126-11.5W
 DATE 77/ 5/13 TIME 15: 9:58 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.32	30.89	24.03	1479.
10	8.19	30.92	24.07	1479.
20	8.05	31.01	24.16	1478.
30	8.05	31.00	24.16	1478.
50	8.02	31.08	24.22	1479.
75	7.97	31.12	24.26	1479.
100	7.91	31.27	24.39	1479.
125	7.85	31.36	24.46	1480.
150	7.84	31.39	24.49	1480.
175	7.85	31.45	24.53	1481.
200	7.87	31.47	24.55	1481.
225	7.87	31.48	24.56	1481.
250	7.86	31.53	24.59	1482.
275	7.86	31.55	24.61	1482.
300	7.85	31.52	24.59	1483.
325	7.84	31.58	24.64	1483.

STATION J 85 CRUISE 77-12 CONS #101
 POSITION 50-28.5N 126- 7.0W
 DATE 77/ 5/13 TIME 15:47: 0 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.51	30.84	23.97	1479.
10	8.06	31.05	24.19	1478.
20	8.05	31.02	24.17	1478.
30	8.01	31.11	24.25	1478.
50	8.00	31.14	24.27	1479.
75	7.85	31.37	24.48	1479.
100	7.83	31.45	24.54	1479.
125	7.82	31.47	24.56	1480.
150	7.83	31.50	24.58	1480.
175	7.83	31.46	24.55	1481.
200	7.83	31.51	24.59	1481.
225	7.82	31.52	24.60	1481.
250	7.83	31.54	24.61	1482.
275	7.83	31.49	24.57	1482.
300	7.84	31.51	24.58	1483.

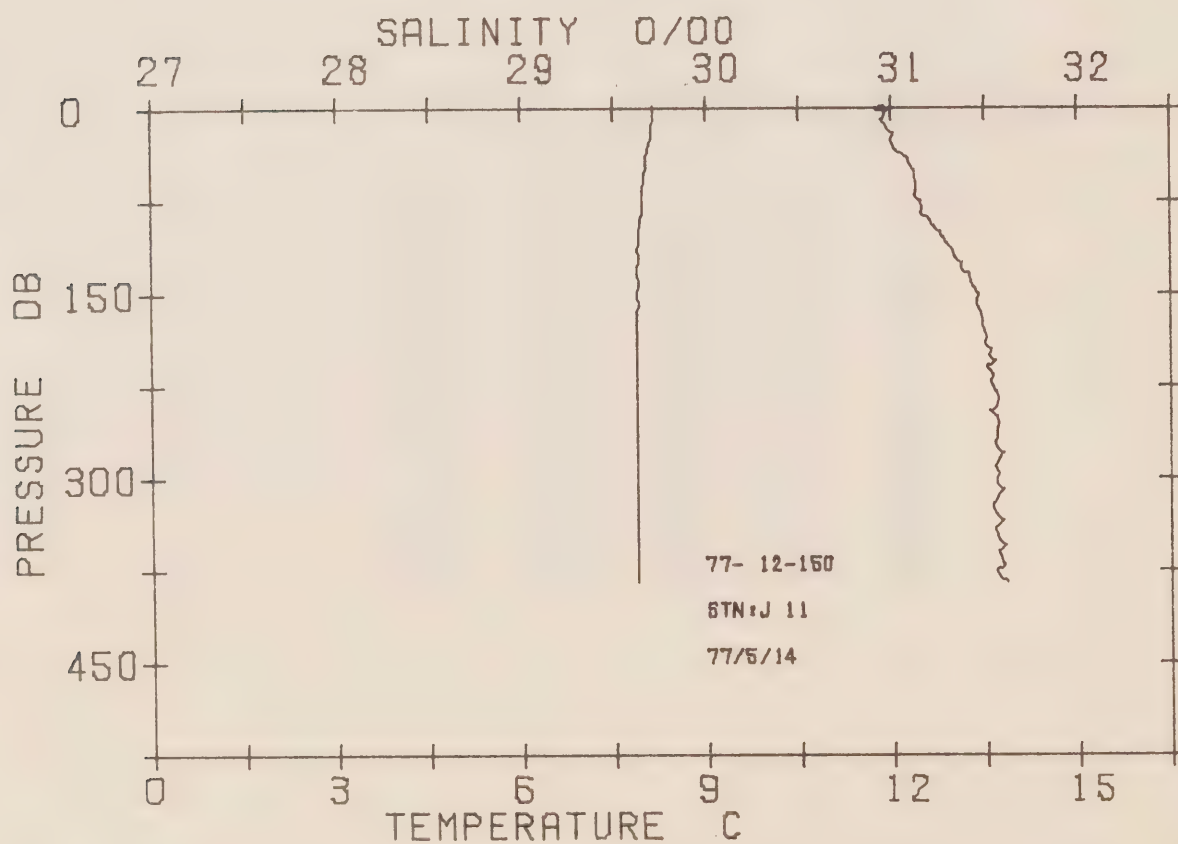
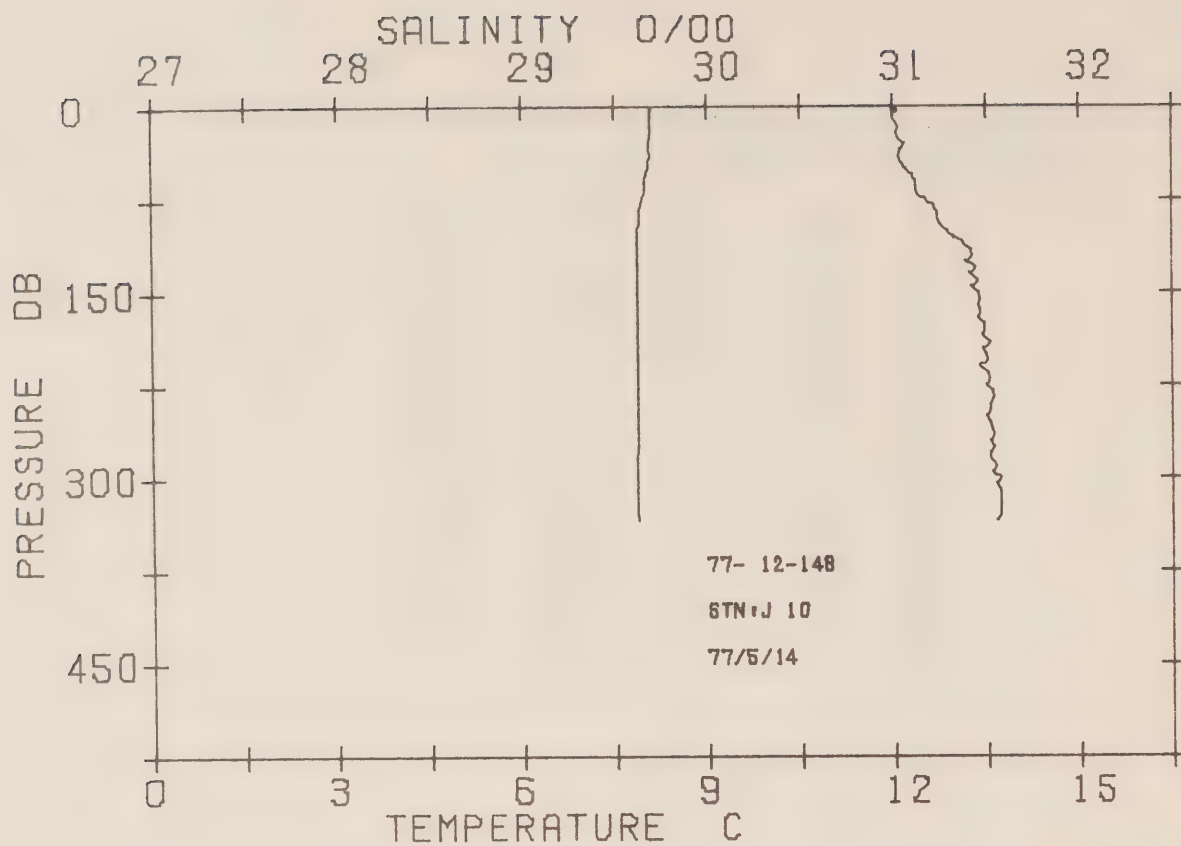


STATION J 95 CRUISE 77-12 CONS #145
 POSITION 50-28.7N 126-11.5W
 DATE 77/ 5/14 TIME 15:43:35 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.25	30.95	24.09	1479.
10	8.10	31.01	24.16	1478.
20	8.07	31.04	24.18	1478.
30	8.07	31.02	24.17	1478.
50	7.97	31.20	24.32	1479.
75	7.97	31.21	24.33	1479.
100	7.88	31.32	24.43	1479.
125	7.85	31.37	24.48	1480.
150	7.86	31.42	24.52	1480.
175	7.86	31.42	24.51	1481.
200	7.88	31.46	24.54	1481.
225	7.88	31.50	24.57	1482.
250	7.86	31.50	24.57	1482.
275	7.87	31.49	24.57	1482.
300	7.87	31.51	24.58	1483.
325	7.86	31.52	24.59	1483.

STATION J 85 CRUISE 77-12 CONS #146
 POSITION 50-28.5N 126- 7.0W
 DATE 77/ 5/14 TIME 16:16: 2 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.33	30.86	24.01	1479.
10	8.13	30.95	24.11	1478.
20	8.07	31.02	24.17	1478.
30	8.08	31.02	24.17	1479.
50	8.04	31.10	24.24	1479.
75	7.89	31.32	24.43	1479.
100	7.86	31.45	24.53	1479.
125	7.86	31.42	24.52	1480.
150	7.85	31.41	24.50	1480.
175	7.86	31.47	24.55	1481.
200	7.86	31.47	24.55	1481.
225	7.86	31.50	24.57	1481.
250	7.85	31.49	24.57	1482.
275	7.84	31.50	24.58	1482.
300	7.85	31.51	24.58	1483.

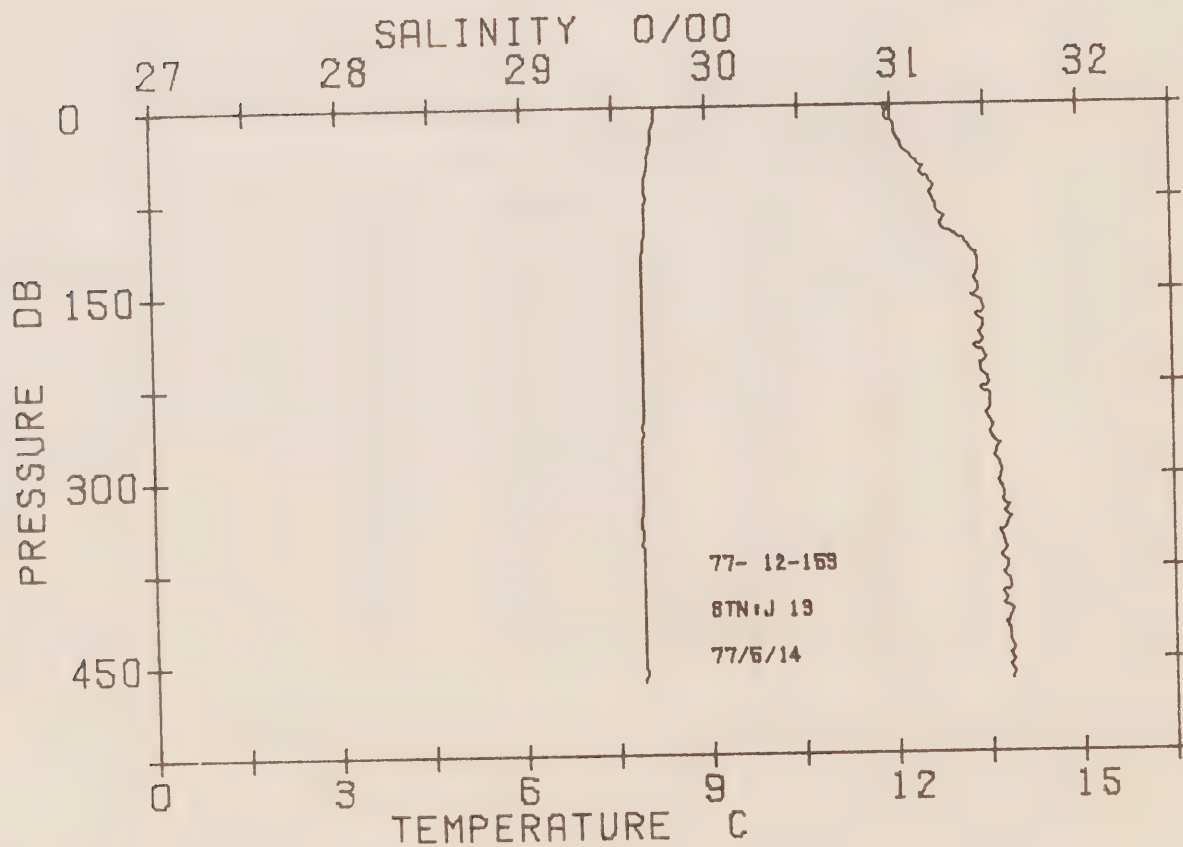
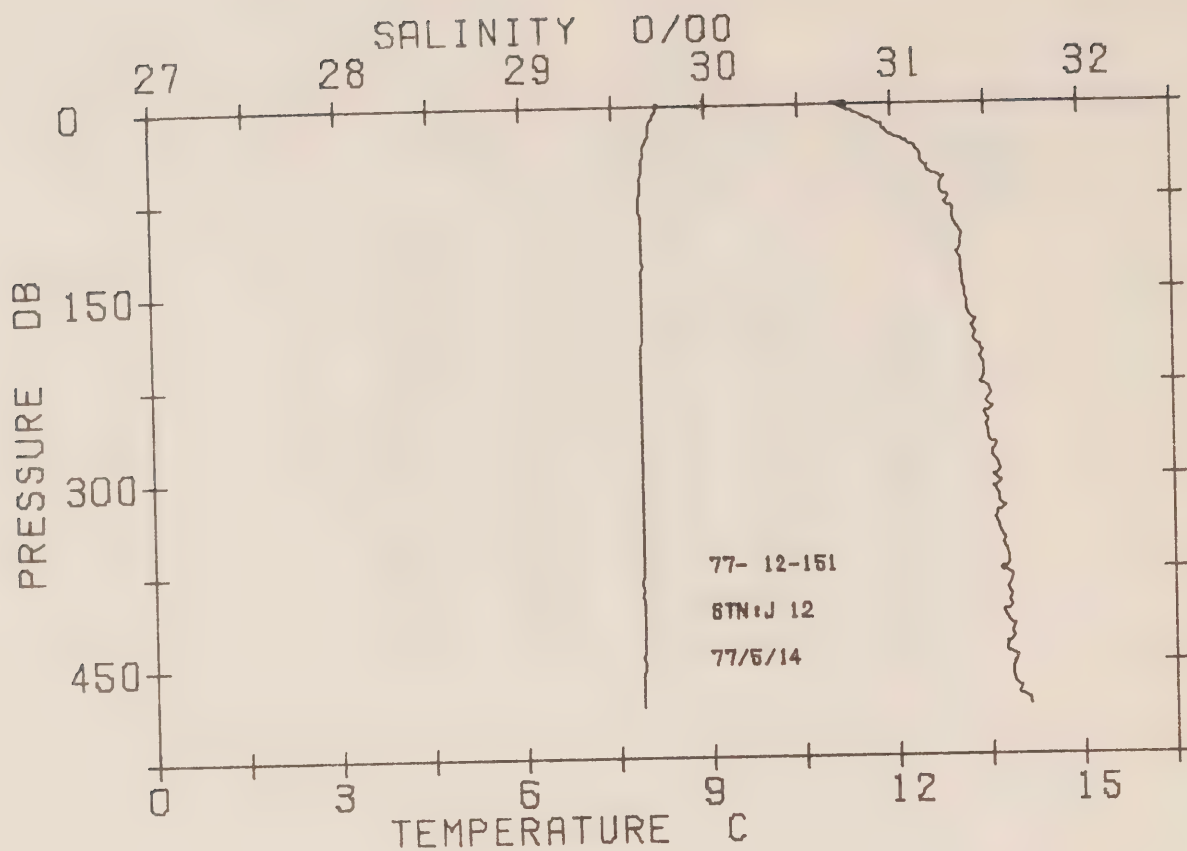


STATION J 10 CRUISE 77-12 CONS #148
 POSITION 50-29.7N 126-18.7W
 DATE 77/ 5/14 TIME 18:53:41 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.12	31.01	24.15	1478.
10	8.10	31.00	24.15	1478.
20	8.08	31.02	24.17	1478.
30	8.07	31.06	24.20	1479.
50	8.06	31.07	24.21	1479.
75	7.96	31.18	24.31	1479.
100	7.89	31.29	24.40	1479.
125	7.88	31.40	24.49	1480.
150	7.87	31.46	24.54	1480.
175	7.88	31.49	24.56	1481.
200	7.88	31.50	24.57	1481.
225	7.88	31.50	24.57	1482.
250	7.88	31.50	24.57	1482.
275	7.86	31.54	24.60	1482.
300	7.85	31.57	24.63	1483.
325	7.85	31.57	24.63	1483.

STATION J 11 CRUISE 77-12 CONS #150
 POSITION 50-30.0N 126-30.0W
 DATE 77/ 5/14 TIME 19:45:42 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.15	30.96	24.11	1478.
10	8.15	30.95	24.11	1478.
20	8.11	31.01	24.15	1479.
30	8.09	31.01	24.16	1479.
50	8.02	31.13	24.26	1479.
75	7.98	31.16	24.29	1479.
100	7.91	31.26	24.38	1479.
125	7.90	31.37	24.47	1480.
150	7.89	31.47	24.54	1480.
175	7.89	31.49	24.56	1481.
200	7.89	31.52	24.58	1481.
225	7.89	31.54	24.60	1482.
250	7.88	31.56	24.62	1482.
275	7.89	31.56	24.62	1482.
300	7.89	31.56	24.62	1483.
325	7.88	31.54	24.61	1483.
350	7.87	31.57	24.63	1484.
375	7.88	31.56	24.62	1484.

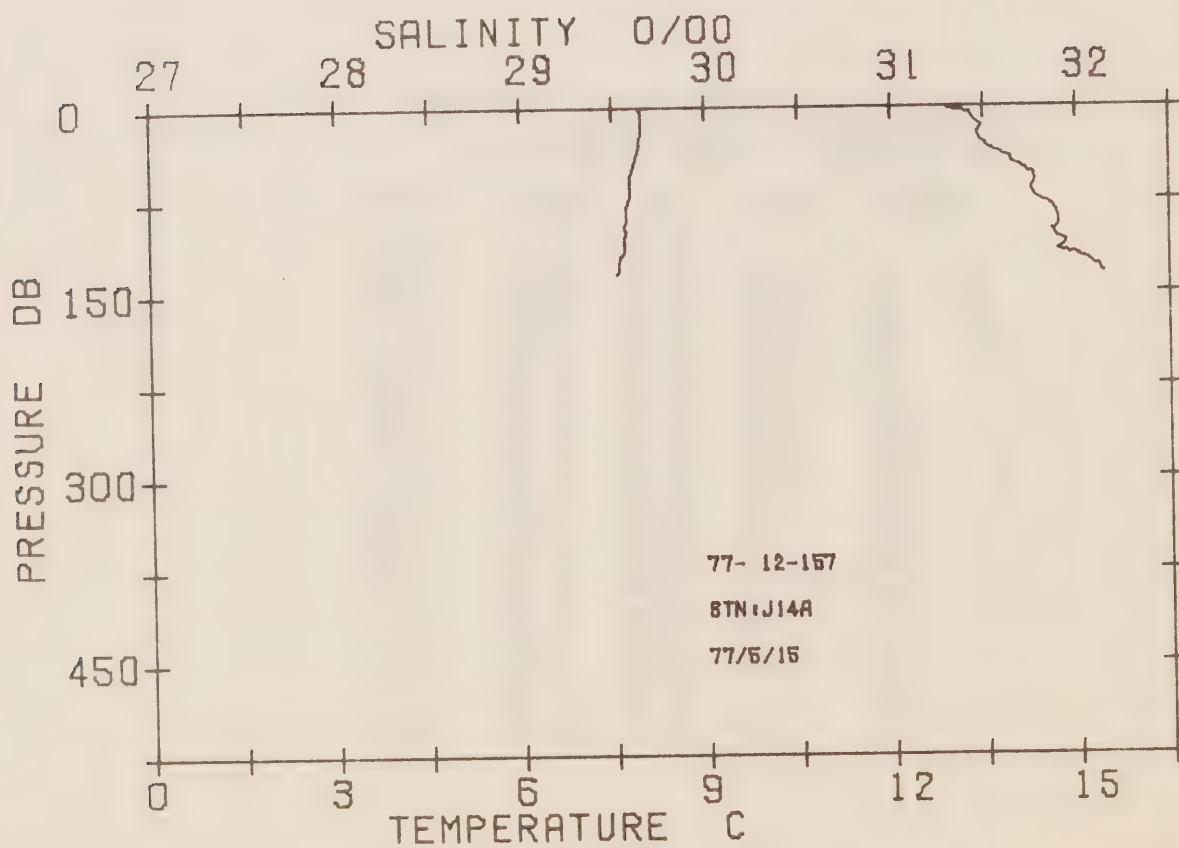
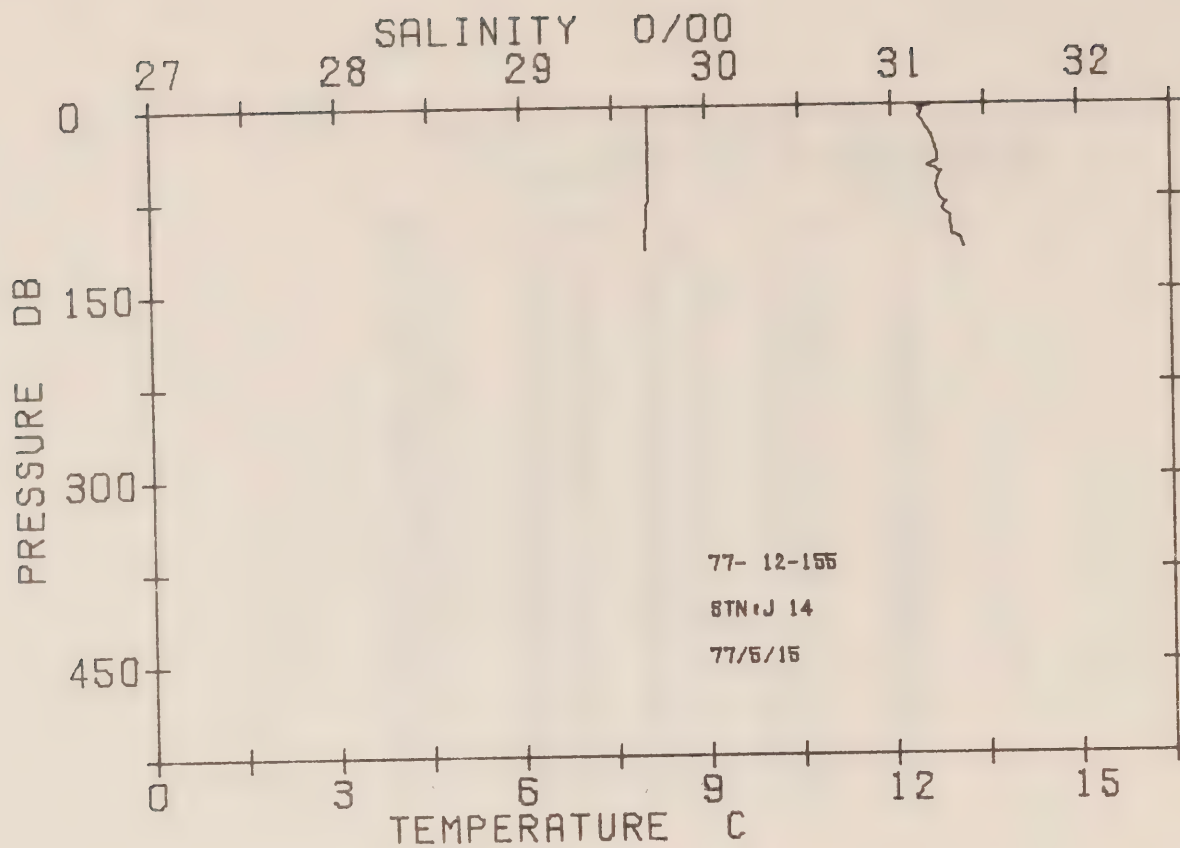


STATION J 12 CRUISE 77-12 CONS #151
 POSITION 50-31.7N 126-41.0W
 DATE 77/ 5/14 TIME 21:22:50 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.23	30.74	23.93	1478.
10	8.17	30.85	24.02	1478.
20	8.10	30.97	24.12	1478.
30	8.03	31.08	24.22	1478.
50	7.98	31.19	24.31	1479.
75	7.92	31.30	24.41	1479.
100	7.94	31.35	24.44	1480.
125	7.95	31.36	24.46	1480.
150	7.95	31.39	24.48	1480.
175	7.93	31.44	24.52	1481.
200	7.92	31.48	24.55	1481.
225	7.92	31.46	24.53	1482.
250	7.91	31.48	24.55	1482.
275	7.91	31.54	24.60	1483.
300	7.91	31.53	24.59	1483.
325	7.90	31.58	24.63	1483.
350	7.91	31.58	24.63	1484.
375	7.90	31.56	24.62	1484.
400	7.90	31.60	24.65	1485.
425	7.90	31.61	24.66	1485.
450	7.90	31.63	24.67	1485.
475	7.88	31.65	24.69	1486.

STATION J 13 CRUISE 77-12 CONS #153
 POSITION 50-33.3N 126-47.0W
 DATE 77/ 5/14 TIME 22:51:50 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.18	30.98	24.13	1478.
10	8.19	30.97	24.11	1479.
20	8.13	31.02	24.16	1479.
30	8.11	31.05	24.18	1479.
50	8.06	31.17	24.29	1479.
75	8.02	31.22	24.33	1479.
100	8.01	31.27	24.37	1480.
125	7.94	31.46	24.53	1480.
150	7.94	31.46	24.53	1481.
175	7.94	31.48	24.54	1481.
200	7.95	31.48	24.54	1481.
225	7.93	31.51	24.57	1482.
250	7.93	31.49	24.55	1482.
275	7.92	31.56	24.61	1483.
300	7.91	31.56	24.62	1483.
325	7.90	31.60	24.64	1483.
350	7.90	31.57	24.62	1484.
375	7.91	31.59	24.64	1484.
400	7.91	31.59	24.64	1485.
425	7.91	31.60	24.64	1485.
450	7.92	31.63	24.67	1486.

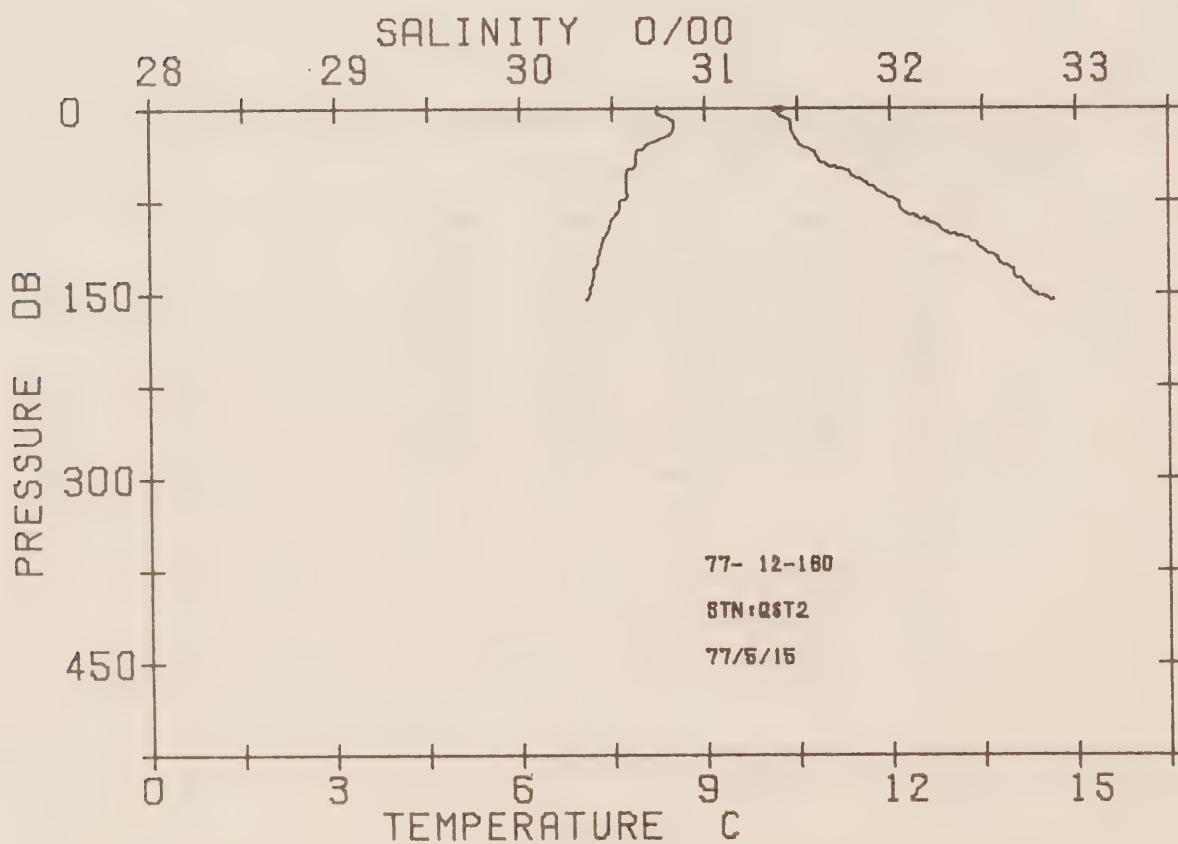
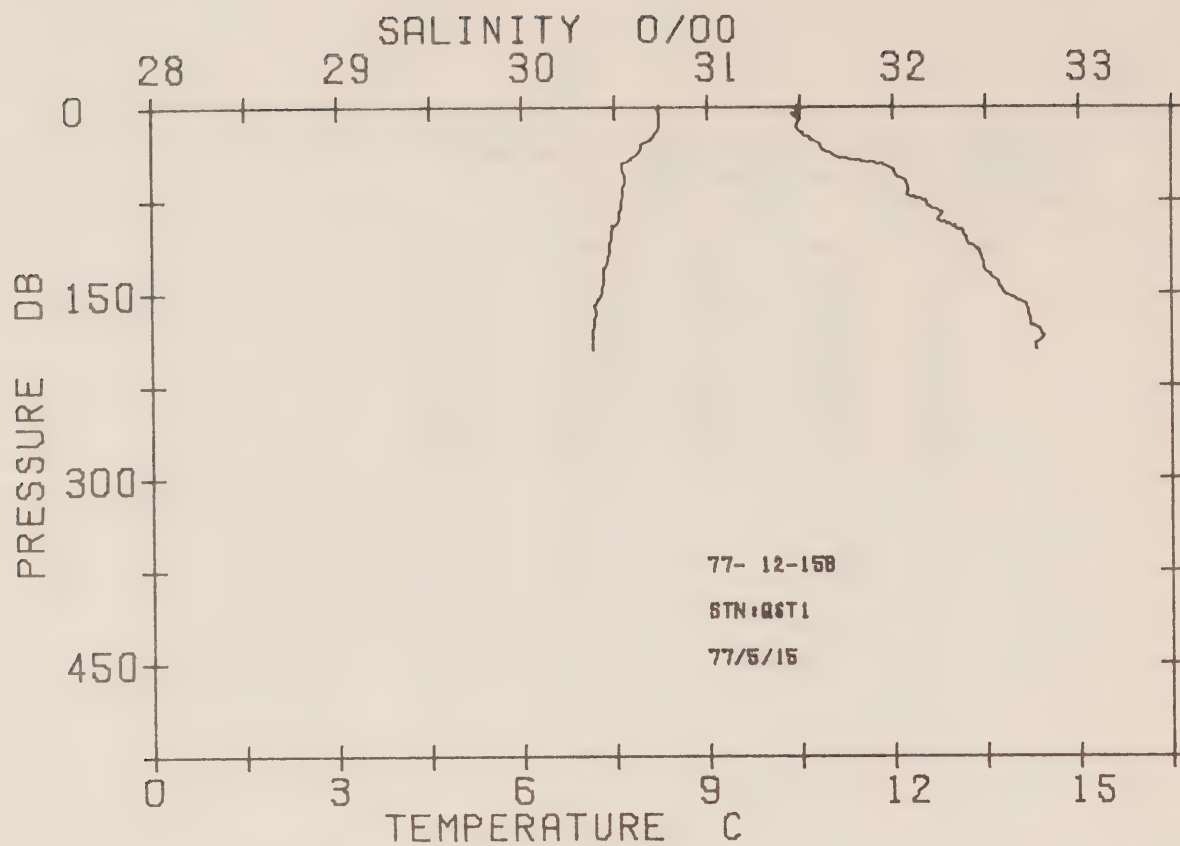


STATION J 14 CRUISE 77-12 CONS #155
 POSITION 50-34.0N 126-52.0W
 DATE 77/ 5/15 TIME 0:14:56 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.07	31.18	24.30	1478.
10	8.07	31.15	24.27	1478.
20	8.06	31.20	24.31	1479.
30	8.06	31.23	24.33	1479.
50	8.06	31.20	24.31	1479.
75	8.05	31.26	24.36	1479.
100	8.01	31.32	24.41	1480.

STATION J14A CRUISE 77-12 CONS #157
 POSITION 50-35.4N 126-50.0W
 DATE 77/ 5/15 TIME 1:19: 5 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.94	31.36	24.45	1478.
10	7.96	31.45	24.52	1478.
20	7.96	31.47	24.54	1479.
30	7.95	31.51	24.57	1479.
50	7.80	31.73	24.76	1479.
75	7.76	31.80	24.82	1479.
100	7.71	31.88	24.89	1479.
125	7.59	32.08	25.07	1480.

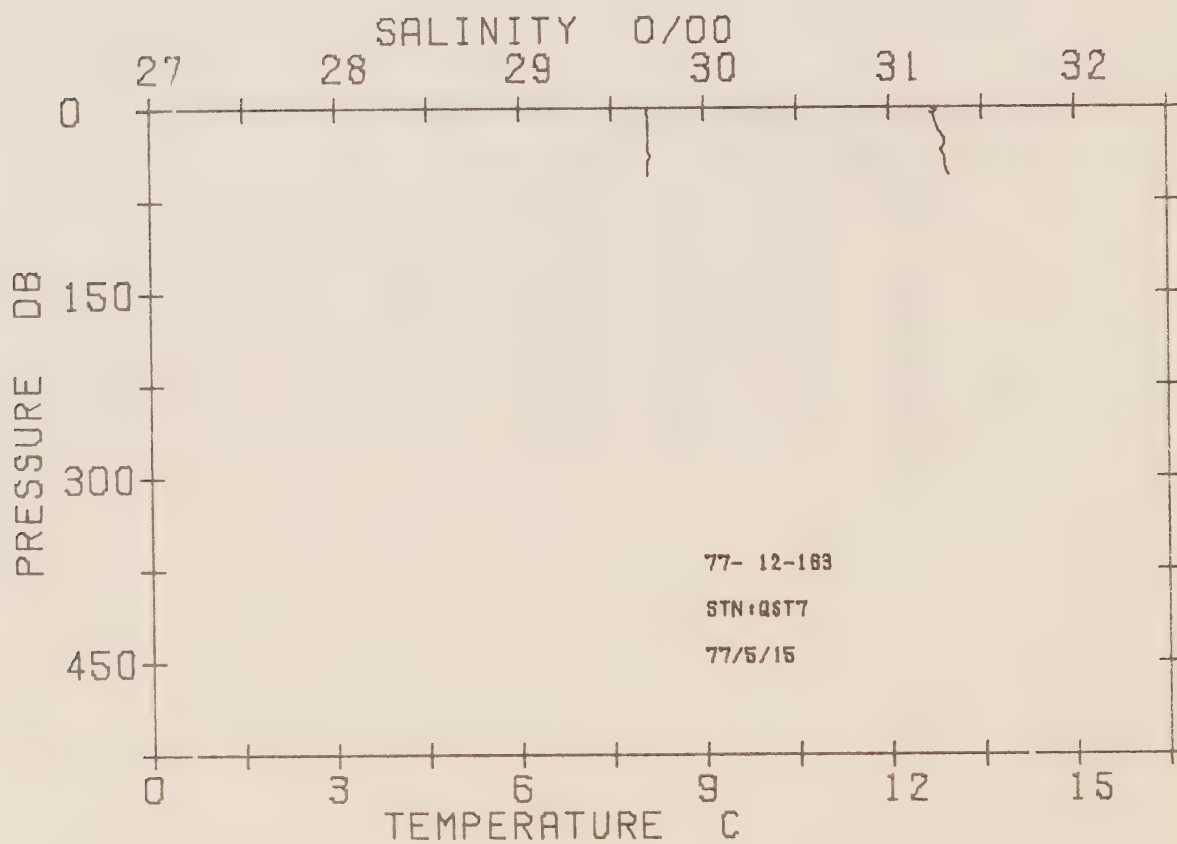
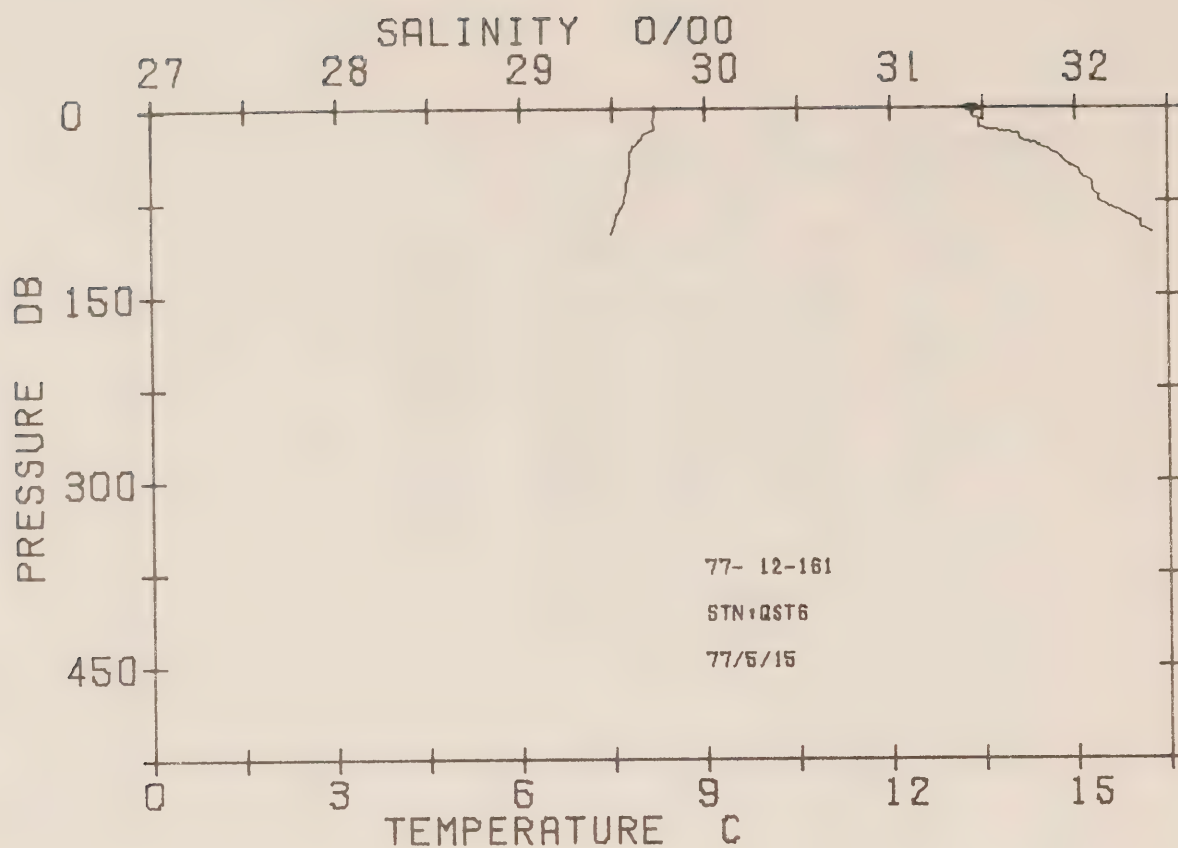


STATION QST1 CRUISE 77-12 CONS #158
 POSITION 50-41.9N 126-55.5W
 DATE 77/ 5/15 TIME 2:11:15 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.21	31.49	24.52	1479.
10	8.21	31.49	24.51	1479.
20	8.15	31.51	24.54	1479.
30	7.93	31.61	24.65	1479.
50	7.64	32.01	25.00	1478.
75	7.60	32.18	25.14	1479.
100	7.43	32.37	25.32	1479.
125	7.36	32.49	25.42	1479.
150	7.27	32.60	25.52	1479.
175	7.16	32.74	25.65	1480.

STATION QST2 CRUISE 77-12 CONS #160
 POSITION 50-45.0N 127- 8.2W
 DATE 77/ 5/15 TIME 3:28:51 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.23	31.39	24.43	1479.
10	8.51	31.47	24.46	1480.
20	8.43	31.48	24.48	1480.
30	8.03	31.52	24.57	1479.
50	7.75	31.78	24.81	1479.
75	7.64	32.05	25.03	1479.
100	7.41	32.30	25.27	1479.
125	7.24	32.59	25.51	1479.
150	7.11	32.78	25.68	1479.

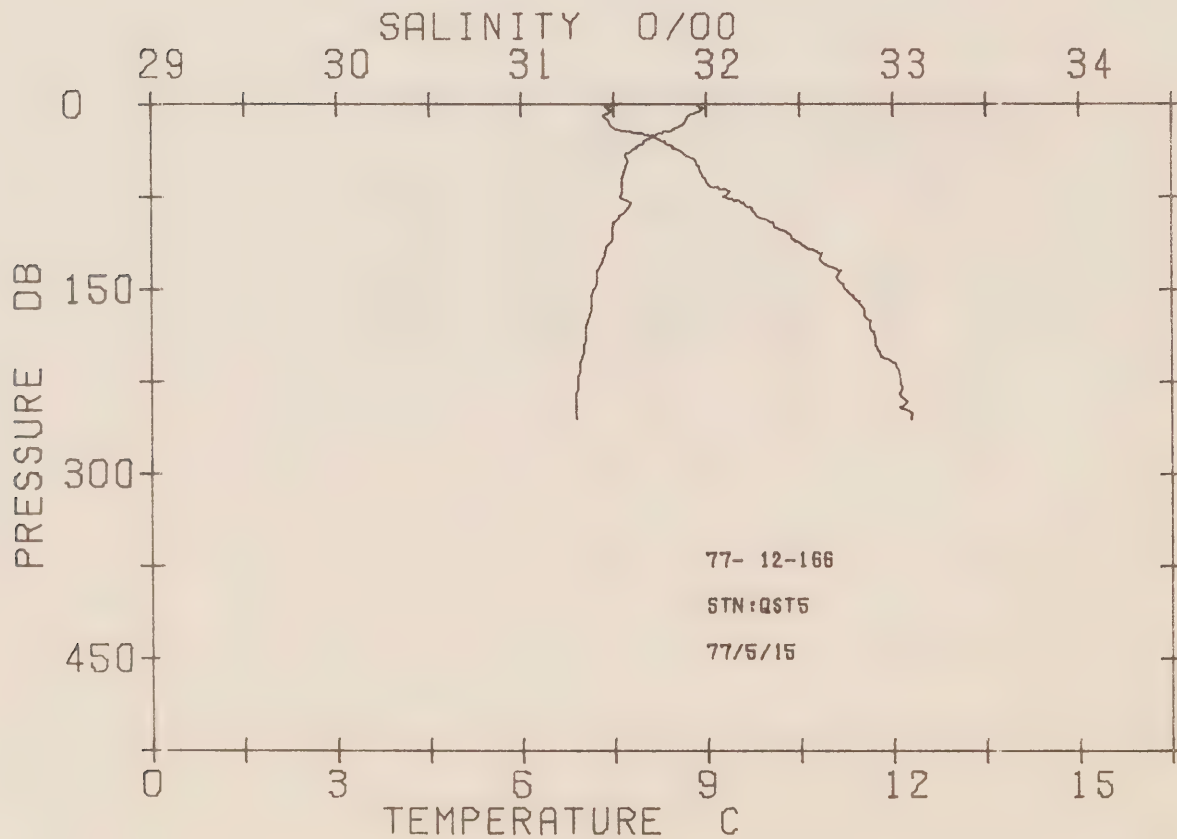
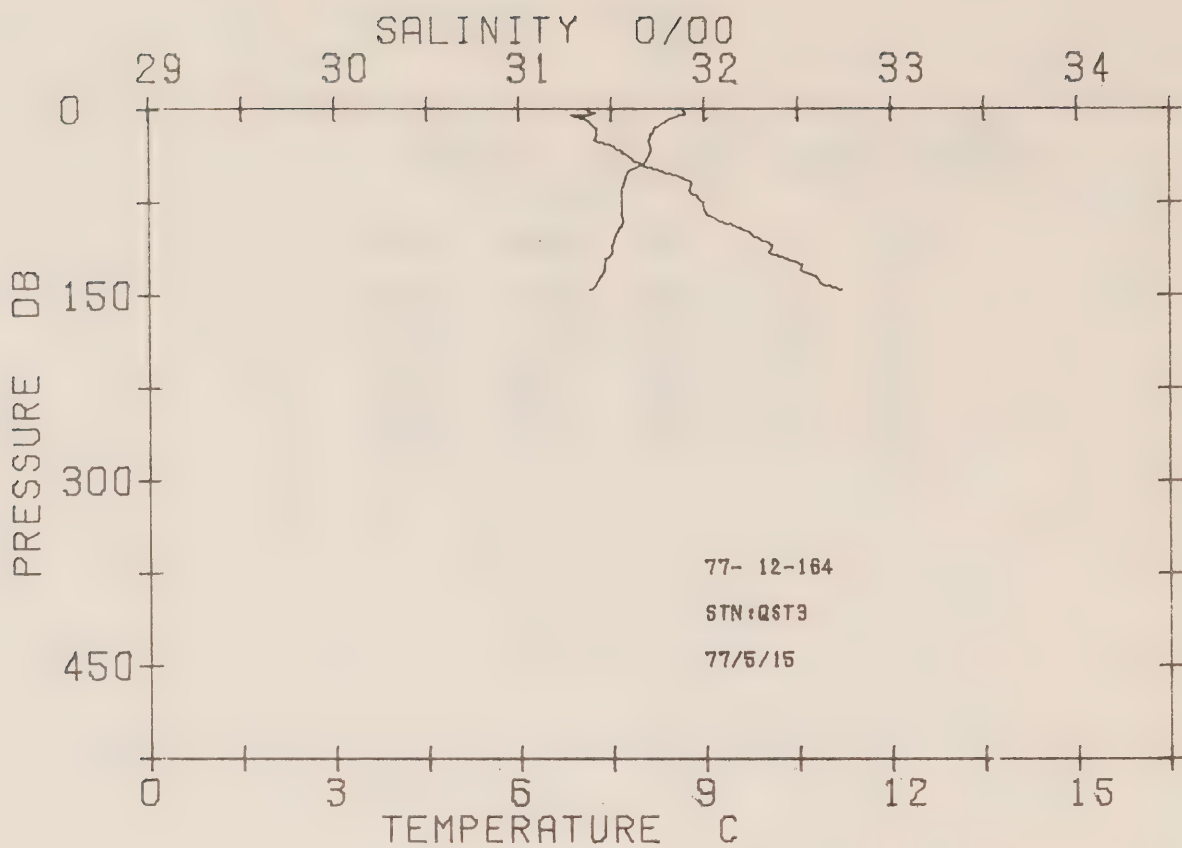


STATION QST6 CRUISE 77-12 CONS #161
 POSITION 50-40.5N 127-13.5W
 DATE 77/ 5/15 TIME 4: 7:39 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.19	31.45	24.49	1479.
10	8.16	31.48	24.52	1479.
20	8.01	31.70	24.71	1479.
30	7.83	31.81	24.82	1479.
50	7.77	32.02	25.00	1479.
75	7.69	32.13	25.09	1479.
100	7.46	32.42	25.35	1479.

STATION QST7 CRUISE 77-12 CONS #163
 POSITION 50-37.3N 127- 5.0W
 DATE 77/ 5/15 TIME 5:30:35 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.08	31.24	24.34	1478.
10	8.03	31.25	24.35	1479.
20	8.10	31.28	24.37	1479.
30	8.10	31.30	24.38	1479.
50	8.10	31.31	24.39	1479.

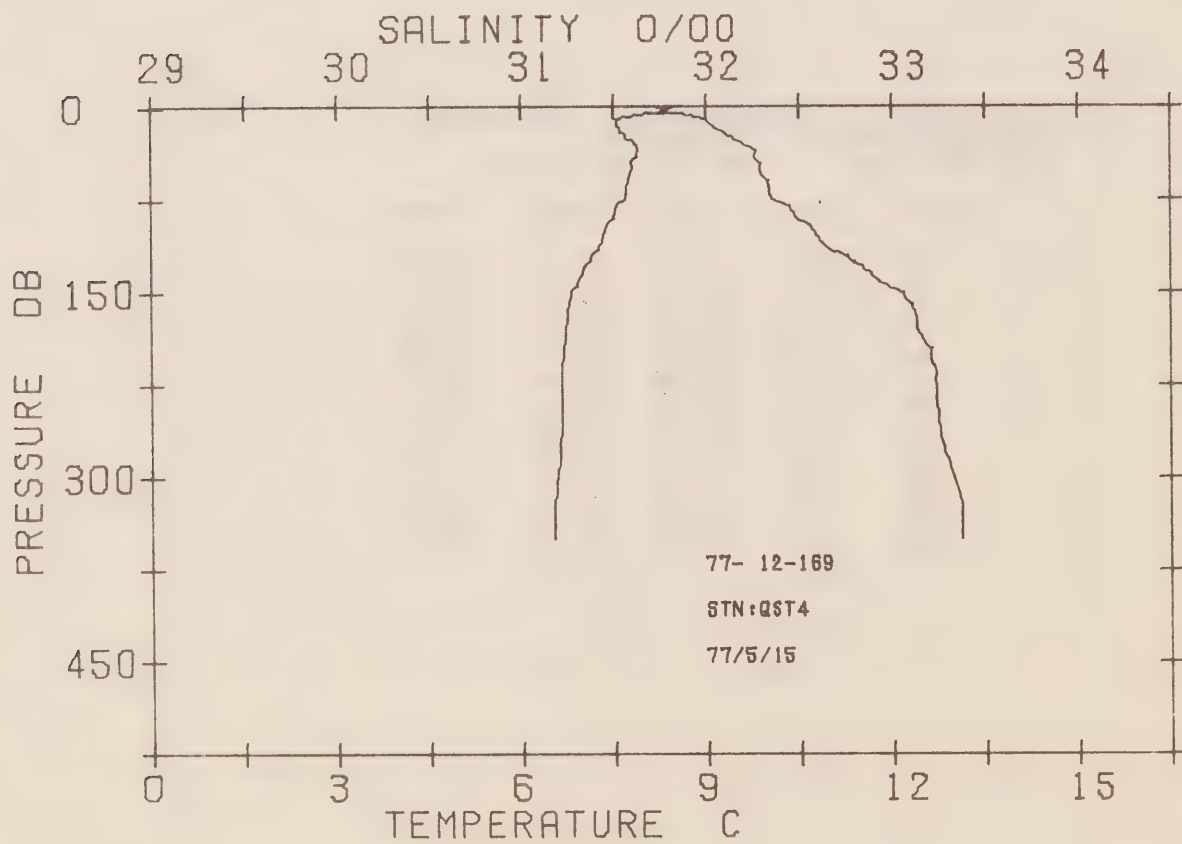
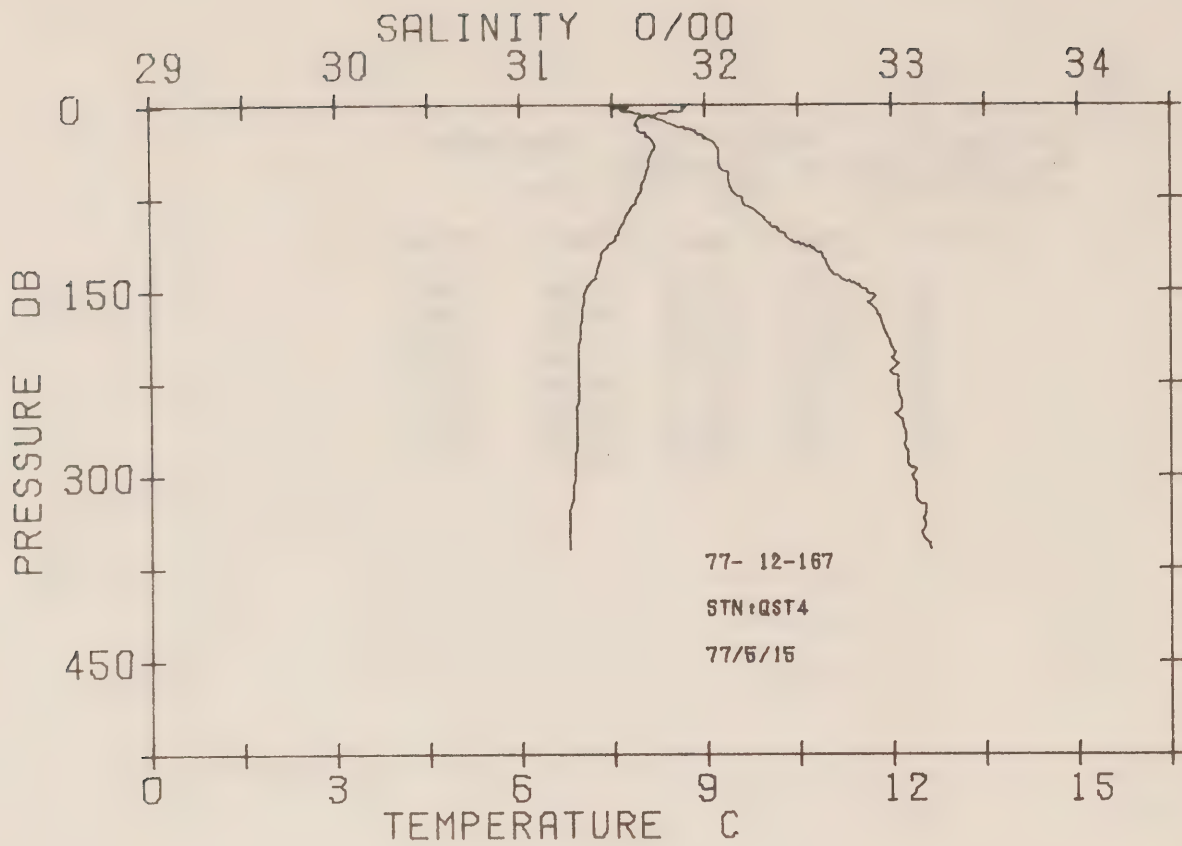


STATION QST3 CRUISE 77-12 CONS #164
 POSITION 50-51.0N 127-20.0W
 DATE 77/ 5/15 TIME 11:31: 6 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.66	31.37	24.36	1481.
10	8.37	31.38	24.41	1480.
20	8.13	31.42	24.47	1479.
30	8.11	31.51	24.54	1479.
50	7.75	31.77	24.80	1479.
75	7.66	31.99	24.99	1479.
100	7.57	32.25	25.20	1479.
125	7.37	32.52	25.44	1479.

STATION QST5 CRUISE 77-12 CONS #166
 POSITION 50-45.0N 127-20.0W
 DATE 77/ 5/15 TIME 12:49: 9 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	8.85	31.51	24.44	1482.
10	8.70	31.45	24.41	1481.
20	8.48	31.51	24.49	1481.
30	8.00	31.77	24.77	1479.
50	7.70	31.96	24.96	1479.
75	7.60	32.09	25.08	1479.
100	7.47	32.37	25.31	1479.
125	7.31	32.60	25.51	1479.
150	7.17	32.75	25.65	1479.
175	7.06	32.88	25.77	1479.
200	7.01	32.93	25.81	1480.
225	6.91	33.04	25.91	1480.
250	6.87	33.10	25.96	1480.

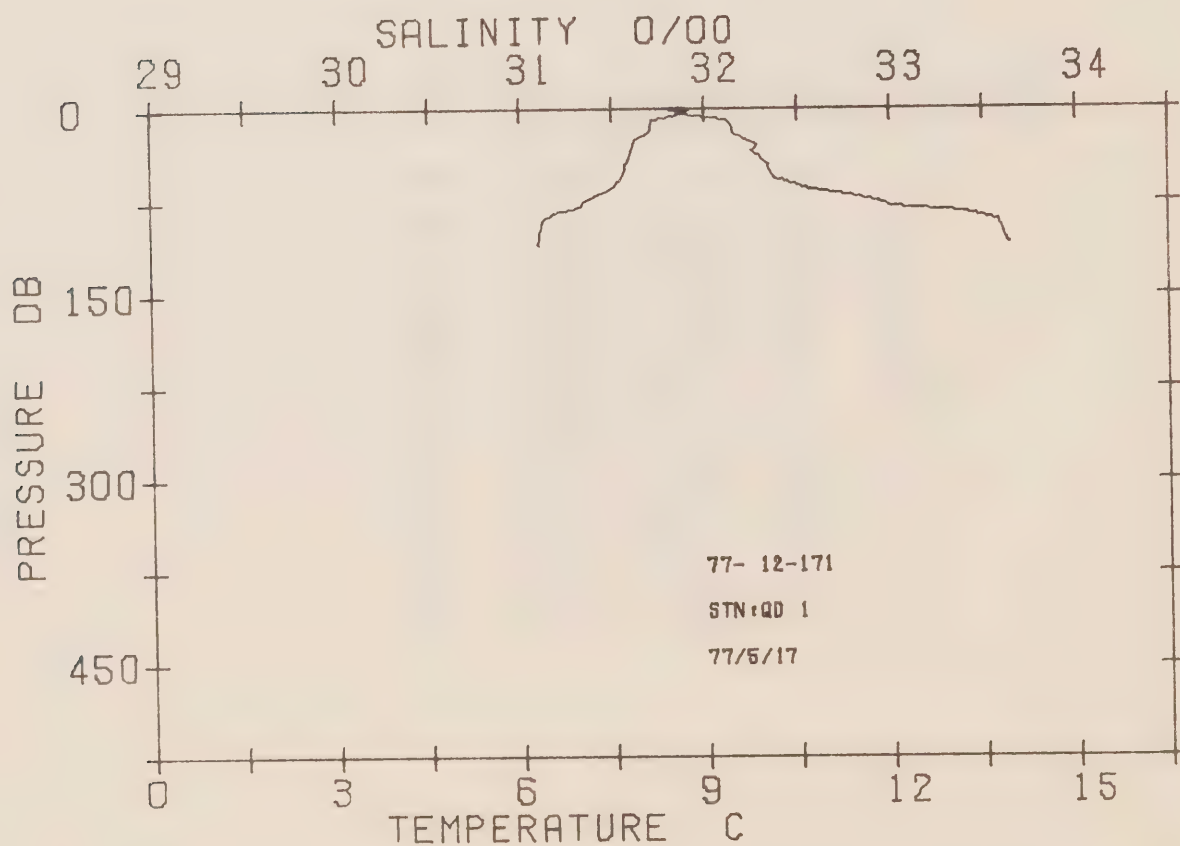
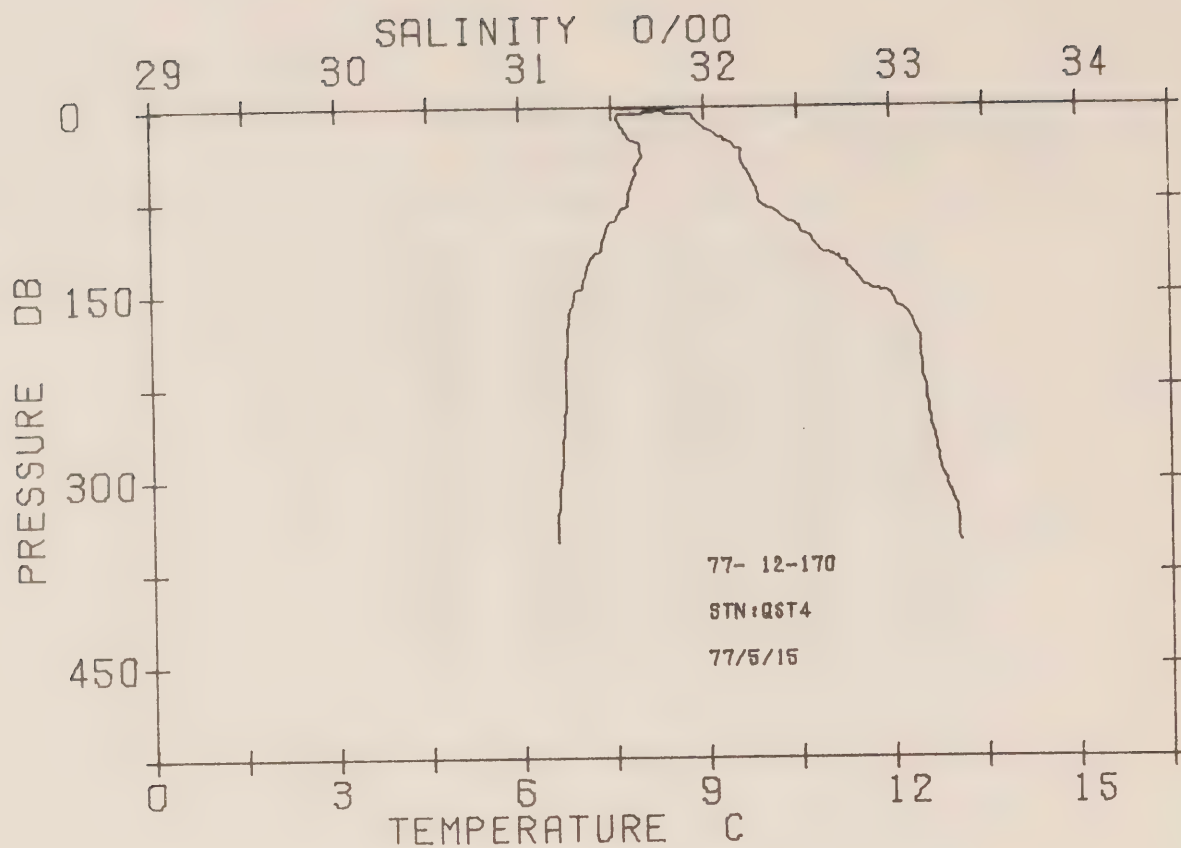


STATION QST4 CRUISE 77-12 CONS #167
 POSITION 50-47.0N 127-29.0W
 DATE 77/ 5/15 TIME 14: 3:35 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.70	31.54	24.48	1481.
10	7.93	31.73	24.75	1479.
20	7.95	31.95	24.92	1479.
30	8.17	32.05	24.96	1480.
50	8.09	32.08	24.99	1480.
75	7.90	32.20	25.12	1480.
100	7.64	32.39	25.31	1480.
125	7.31	32.65	25.55	1479.
150	7.07	32.86	25.75	1479.
175	6.99	32.95	25.83	1479.
200	6.94	33.02	25.89	1479.
225	6.93	33.03	25.90	1480.
250	6.92	33.02	25.90	1480.
275	6.90	33.06	25.93	1481.
300	6.86	33.10	25.97	1481.
325	6.81	33.18	26.04	1481.
350	6.78	33.17	26.03	1481.

STATION QST4 CRUISE 77-12 CONS #169
 POSITION 50-47.0N 127-29.0W
 DATE 77/ 5/15 TIME 14:34:18 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.38	31.78	24.72	1480.
10	7.55	32.00	25.01	1477.
20	7.64	32.10	25.08	1478.
30	7.84	32.20	25.12	1479.
50	7.82	32.29	25.20	1480.
75	7.70	32.36	25.27	1480.
100	7.37	32.58	25.49	1479.
125	7.12	32.79	25.69	1479.
150	6.82	33.05	25.94	1478.
175	6.74	33.14	26.01	1478.
200	6.68	33.21	26.08	1479.
225	6.67	33.24	26.10	1479.
250	6.66	33.25	26.11	1479.
275	6.64	33.28	26.14	1480.
300	6.58	33.33	26.18	1480.
325	6.54	33.37	26.22	1480.
350	6.53	33.38	26.23	1481.

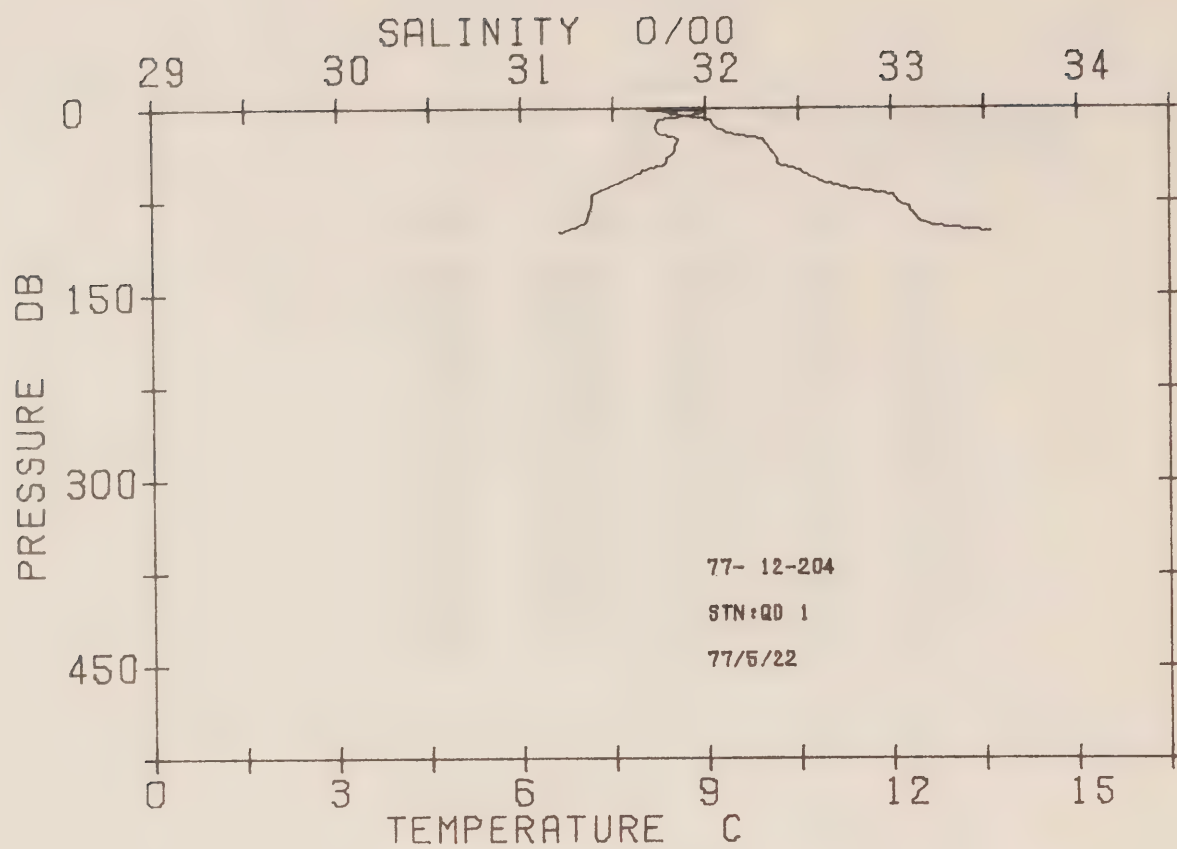


STATION QST4 CRUISE 77-12 CONS #170
 POSITION 50-47.0N 127-29.0W
 DATE 77/ 5/15 TIME 14:49:18 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.38	31.53	24.53	1480.
10	7.59	31.96	24.97	1478.
20	7.71	32.06	25.03	1478.
30	7.97	32.16	25.08	1480.
50	7.87	32.23	25.14	1480.
75	7.79	32.29	25.20	1480.
100	7.42	32.52	25.44	1479.
125	7.13	32.76	25.66	1479.
150	6.89	33.00	25.88	1478.
175	6.77	33.12	26.00	1479.
200	6.74	33.16	26.03	1479.
225	6.72	33.19	26.05	1479.
250	6.70	33.21	26.07	1480.
275	6.67	33.24	26.10	1480.
300	6.62	33.29	26.15	1480.
325	6.58	33.34	26.19	1480.
350	6.56	33.36	26.21	1481.

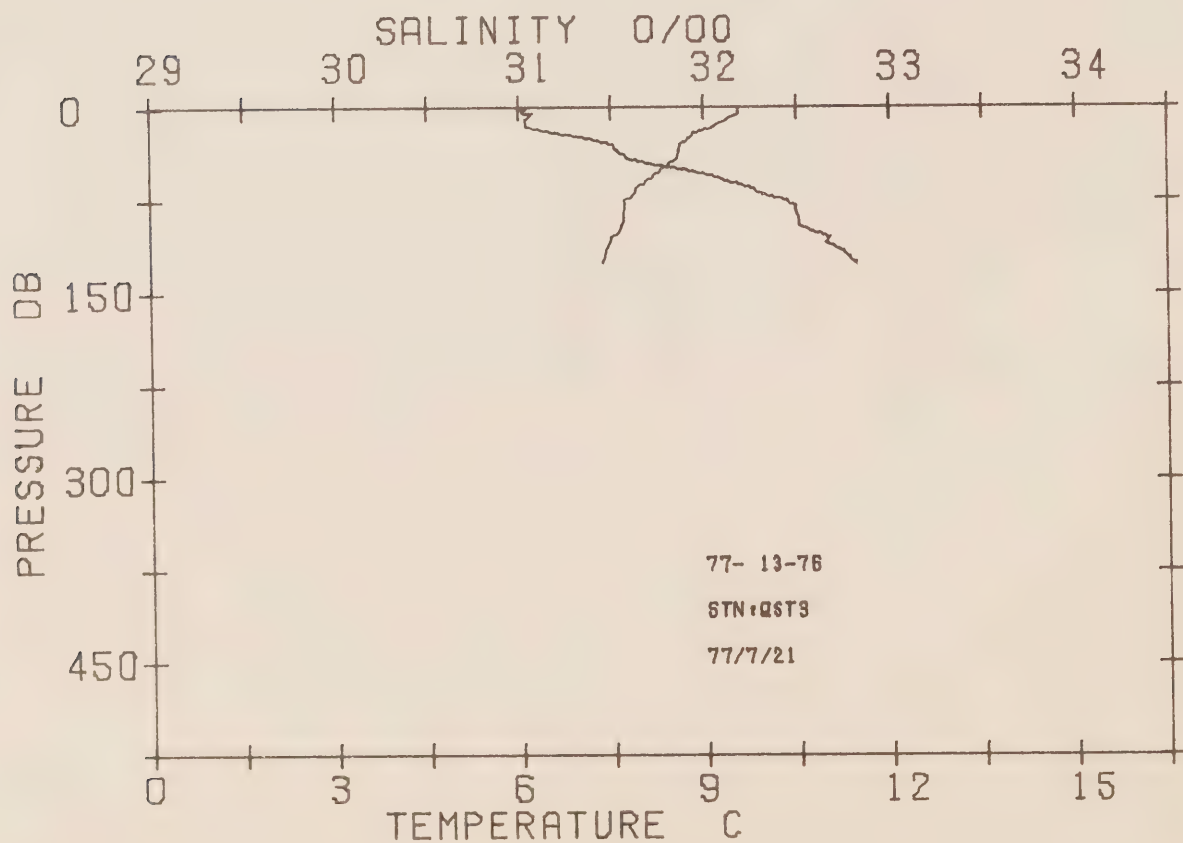
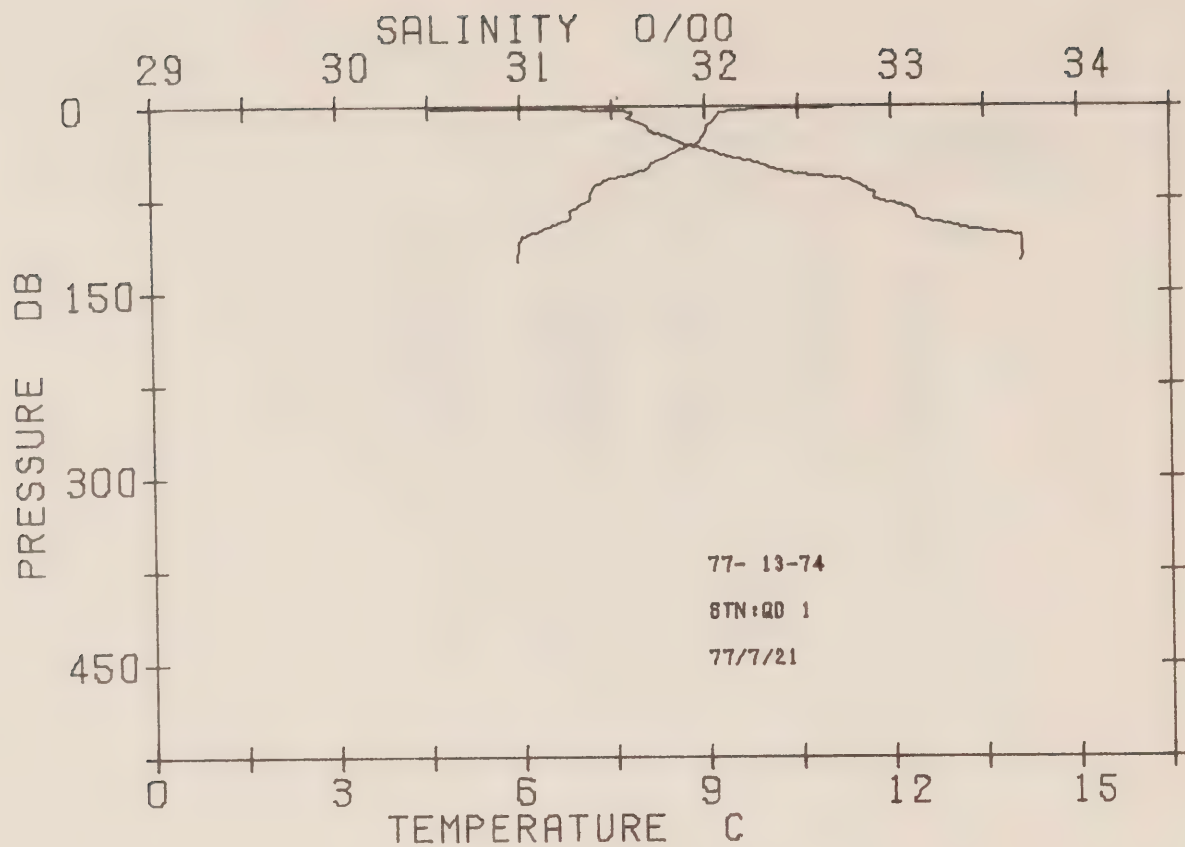
STATION QD 1 CRUISE 77-12 CONS #171
 POSITION 51- .0N 127-55.0W
 DATE 77/ 5/17 TIME 21:56:40 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.58	31.87	24.76	1481.
10	8.15	32.13	25.03	1480.
20	8.09	32.16	25.06	1480.
30	7.83	32.29	25.20	1479.
50	7.73	32.35	25.26	1479.
75	7.04	32.94	25.82	1478.
100	6.32	33.61	26.44	1476.



STATION QD 1 CRUISE 77-12 CONS #204
 POSITION 51- .0N 127-55.0W
 DATE 77/ 5/22 TIME 19: 5:32 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.67	31.90	24.77	1481.
10	8.23	32.03	24.93	1480.
20	8.23	32.13	25.02	1480.
30	8.51	32.33	25.13	1482.
50	7.98	32.51	25.35	1480.
75	7.15	33.04	25.88	1478.
100	6.61	33.53	26.34	1477.

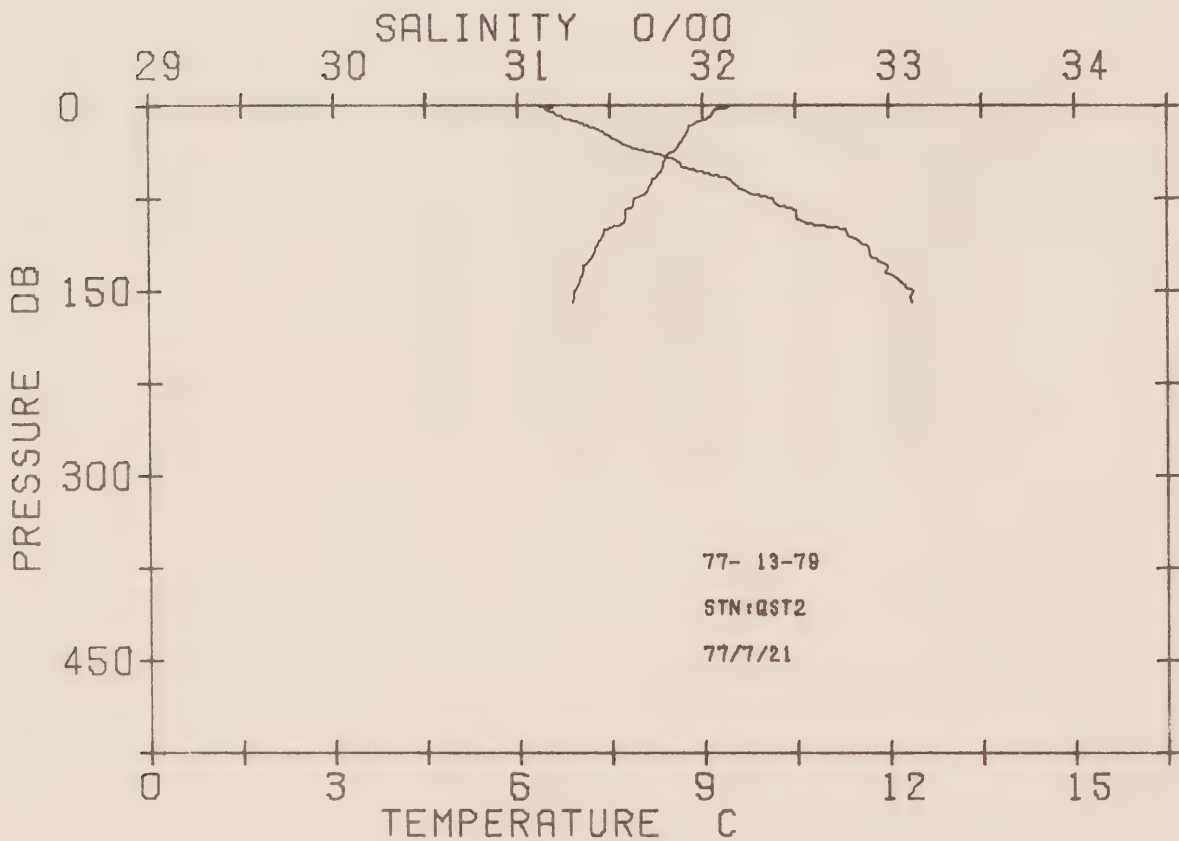
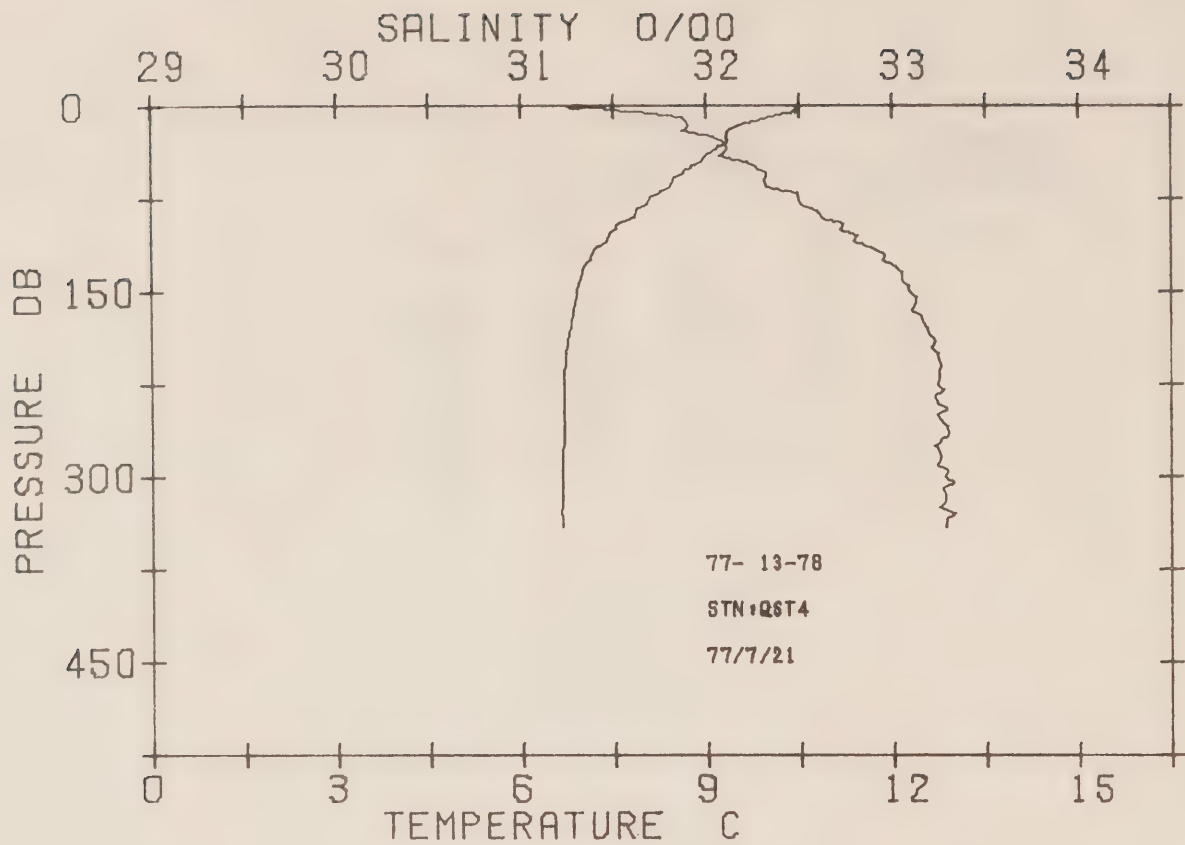


STATION QD 1 CRUISE 77-13 CONS # 74
 POSITION 51- 1.2N 127-54.6W
 DATE 77/ 7/21 TIME 1:55:51 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.98	30.62	23.40	1488.
10	9.16	31.58	24.44	1483.
20	8.99	31.71	24.57	1483.
30	8.86	31.88	24.72	1483.
50	8.05	32.35	25.22	1480.
75	7.12	32.91	25.78	1478.
100	6.31	33.44	26.31	1476.
125	5.94	33.69	26.55	1475.

STATION QST3 CRUISE 77-13 CONS # 76
 POSITION 50-51.0N 127-20.0W
 DATE 77/ 7/21 TIME 5: 3:45 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.57	31.03	23.95	1484.
10	9.38	31.04	23.99	1483.
20	8.83	31.20	24.20	1481.
30	8.61	31.51	24.47	1481.
50	8.32	31.89	24.81	1481.
75	7.73	32.45	25.34	1480.
100	7.61	32.58	25.45	1480.
125	7.33	32.81	25.68	1480.

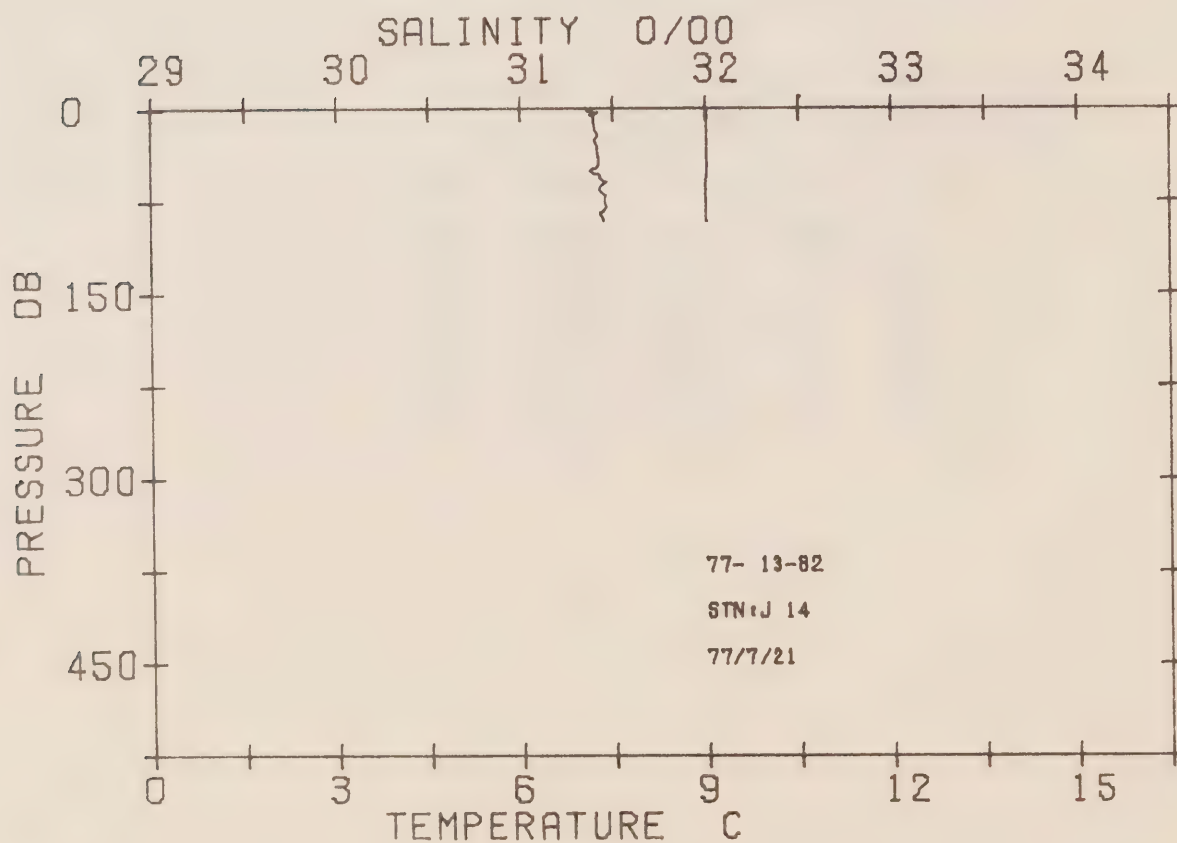
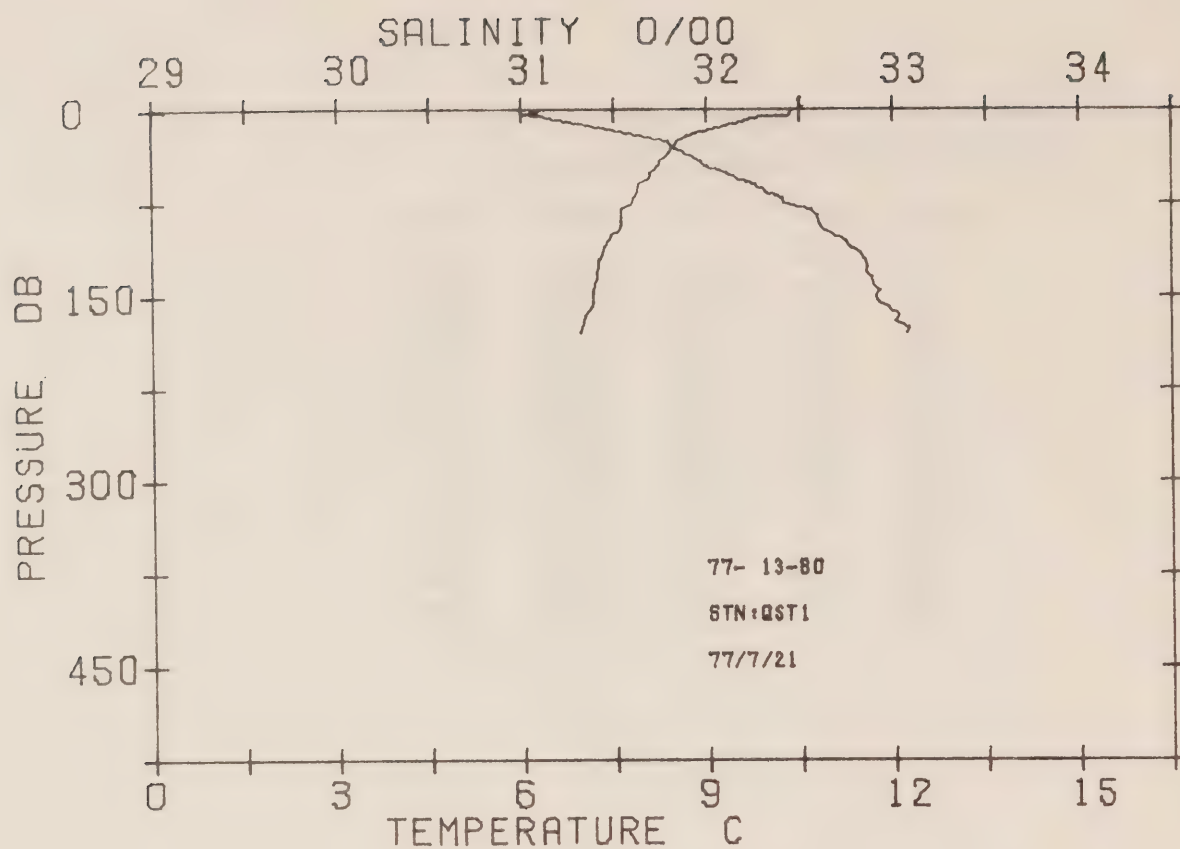


STATION QST4 CRUISE 77-13 CONS # 78
 POSITION 50-47.0N 127-29.0W
 DATE 77/ 7/21 TIME 6:22:55 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.48	31.27	23.99	1487.
10	10.04	31.87	24.53	1487.
20	9.39	31.87	24.63	1484.
30	9.34	32.10	24.82	1485.
50	8.74	32.27	25.05	1483.
75	8.09	32.50	25.32	1481.
100	7.54	32.72	25.58	1480.
125	7.12	32.95	25.82	1479.
150	6.92	33.09	25.95	1479.
175	6.82	33.17	26.02	1479.
200	6.73	33.24	26.09	1479.
225	6.69	33.24	26.10	1479.
250	6.68	33.24	26.10	1480.
275	6.68	33.23	26.09	1480.
300	6.66	33.28	26.14	1480.
325	6.65	33.25	26.11	1481.

STATION QST2 CRUISE 77-13 CONS # 79
 POSITION 50-45.0N 127- 8.2W
 DATE 77/ 7/21 TIME 14:52:22 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.40	31.16	24.08	1483.
10	9.09	31.24	24.19	1482.
20	8.75	31.46	24.41	1482.
30	8.62	31.56	24.51	1481.
50	8.33	31.90	24.82	1481.
75	7.89	32.38	25.26	1480.
100	7.42	32.77	25.63	1479.
125	7.16	32.94	25.80	1479.
150	6.90	33.12	25.98	1479.

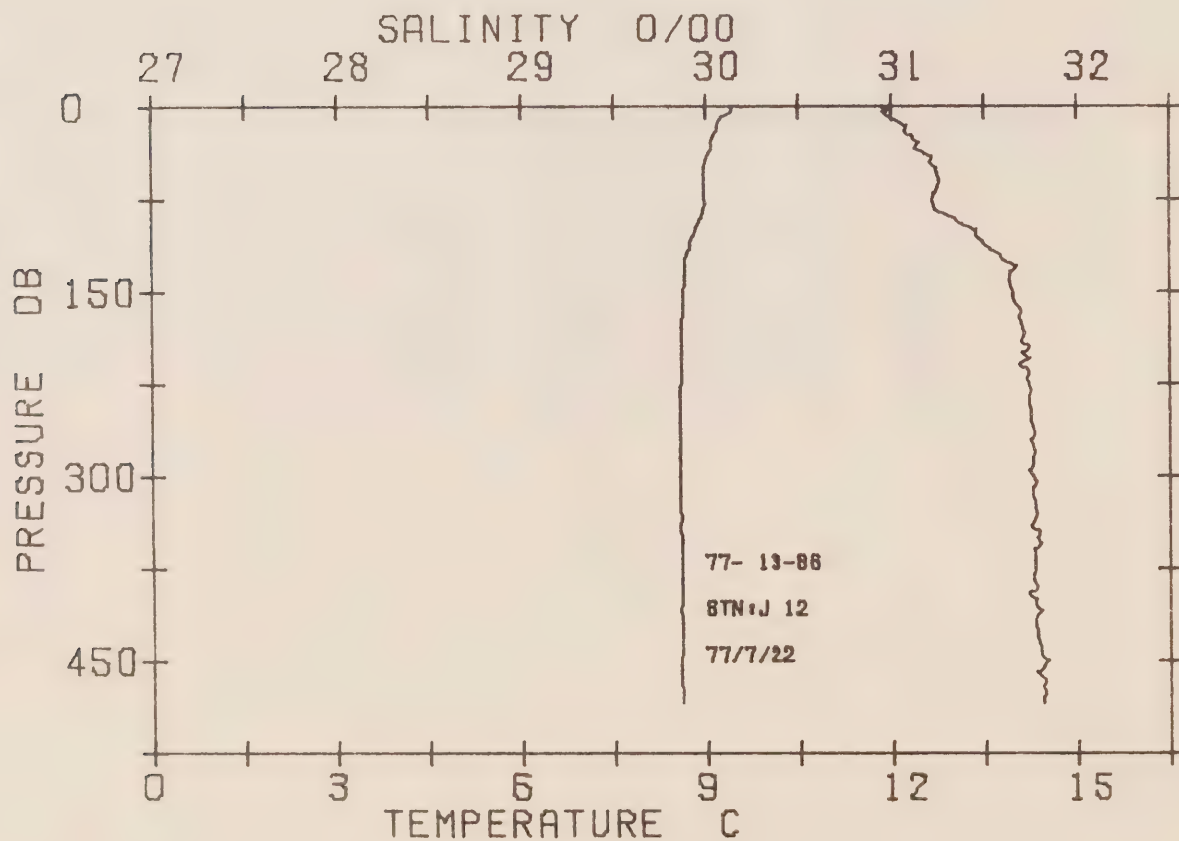
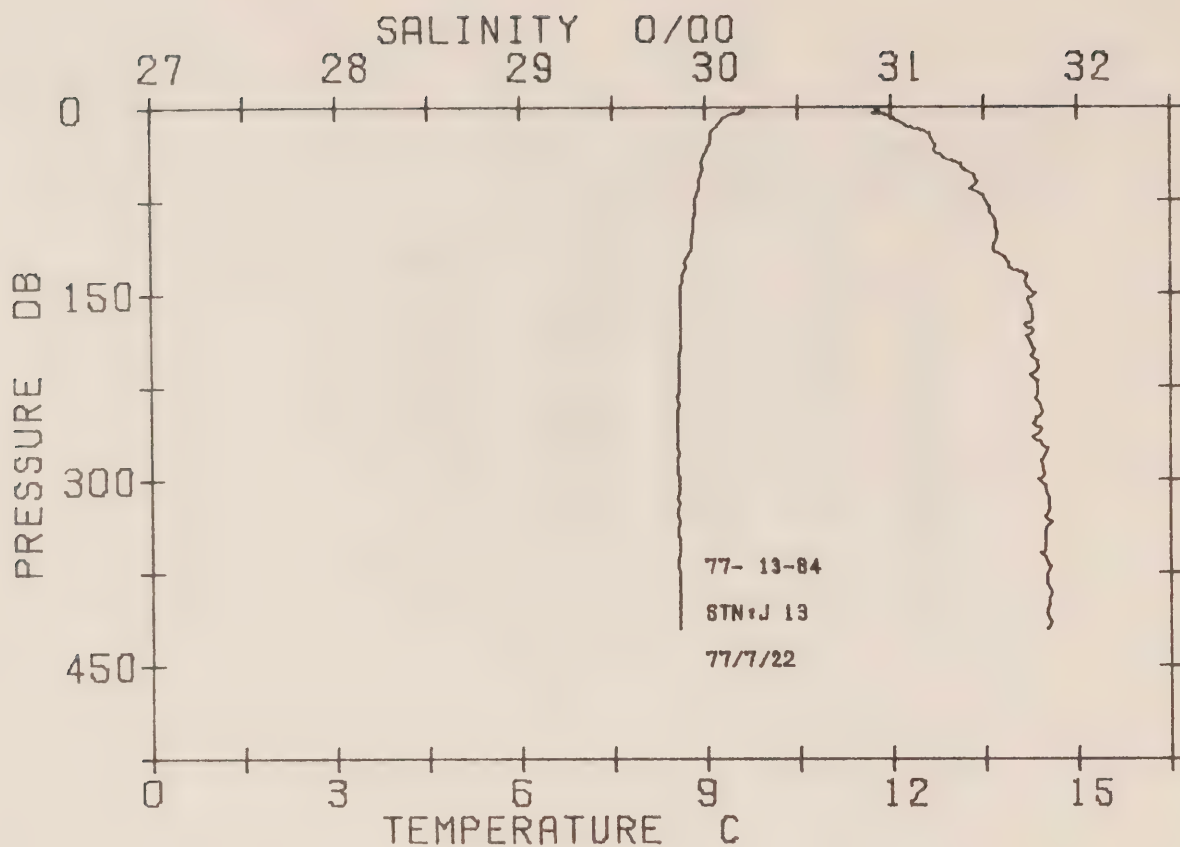


STATION QST1 CRUISE 77-13 CONS # 80
 POSITION 50-41.9N 126-55.5W
 DATE 77/ 7/21 TIME 15:51:43 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	10.34	31.09	23.87	1487.
10	9.54	31.25	24.13	1484.
20	8.68	31.64	24.57	1481.
30	8.43	31.82	24.74	1481.
50	8.10	32.10	25.01	1480.
75	7.78	32.42	25.31	1480.
100	7.47	32.68	25.55	1479.
125	7.25	32.86	25.73	1479.
150	7.16	32.91	25.78	1479.
175	6.98	33.08	25.93	1479.

STATION J 14 CRUISE 77-13 CONS # 82
 POSITION 50-34.0N 126-52.0W
 DATE 77/ 7/21 TIME 17:37:21 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.04	31.38	24.30	1482.
10	9.03	31.40	24.33	1482.
20	9.03	31.42	24.34	1483.
30	9.03	31.42	24.34	1483.
50	9.02	31.39	24.32	1483.
75	9.00	31.46	24.38	1483.

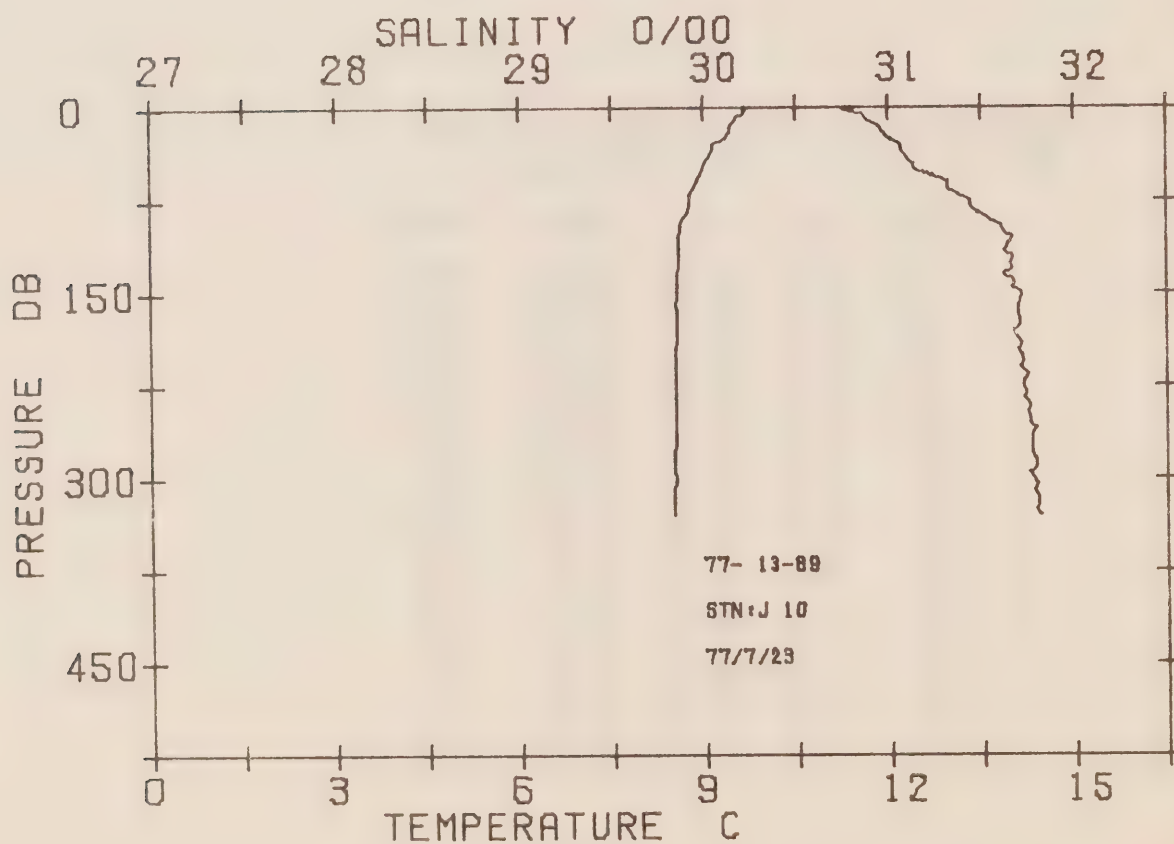
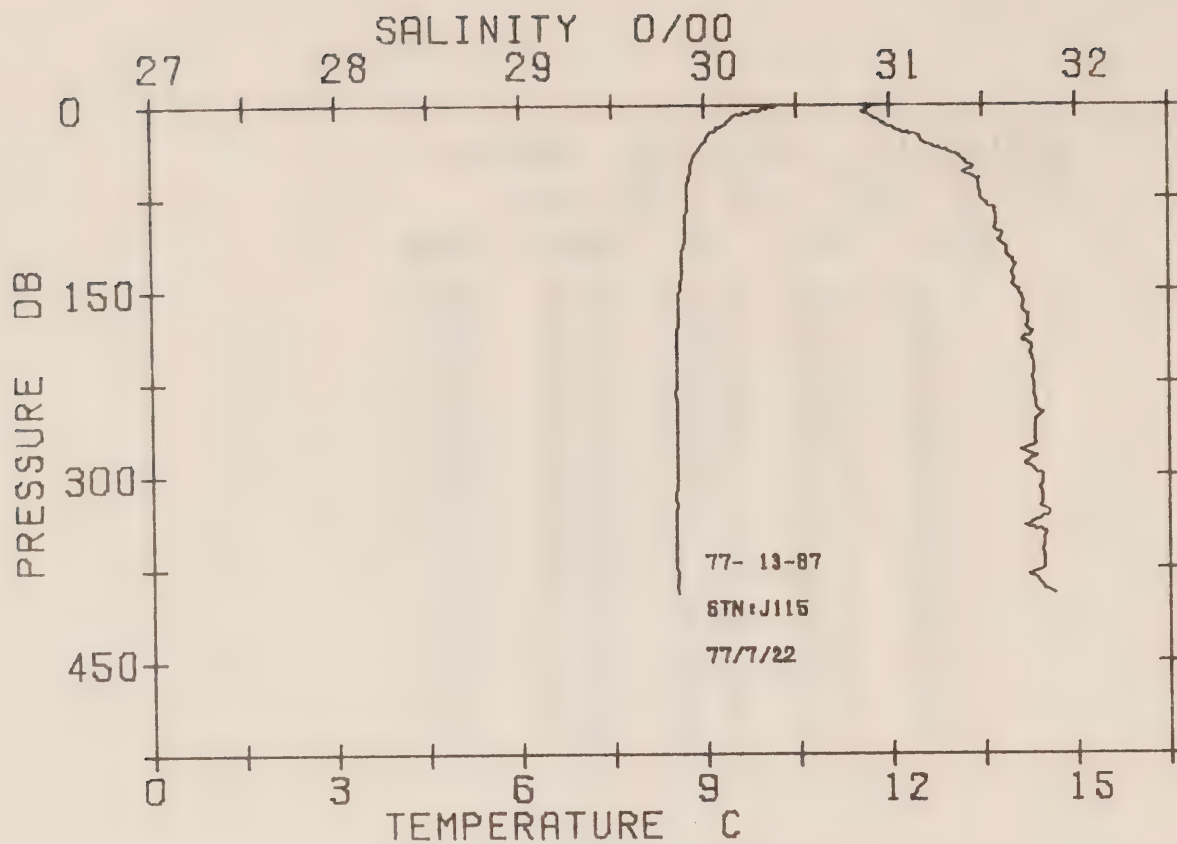


STATION J 13 CRUISE 77-13 CONS # 84
 POSITION 50-33.3N 126-47.0W
 DATE 77/ 7/22 TIME 3:27: 7 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	9.66	30.93	23.86	1484.
10	9.28	31.02	23.99	1483.
20	9.08	31.21	24.16	1482.
30	9.09	31.24	24.19	1483.
50	8.97	31.40	24.33	1483.
75	8.84	31.51	24.44	1483.
100	8.80	31.57	24.50	1483.
125	8.67	31.64	24.56	1483.
150	8.60	31.77	24.68	1483.
175	8.60	31.72	24.64	1484.
200	8.57	31.75	24.67	1484.
225	8.55	31.78	24.69	1485.
250	8.54	31.78	24.69	1485.
275	8.52	31.83	24.74	1485.
300	8.55	31.79	24.70	1486.
325	8.54	31.84	24.74	1486.
350	8.55	31.82	24.73	1487.
375	8.55	31.83	24.73	1487.
400	8.56	31.84	24.74	1487.

STATION J 12 CRUISE 77-13 CONS # 86
 POSITION 50-31.7N 126-41.0W
 DATE 77/ 7/22 TIME 8:17:20 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.42	30.96	23.92	1483.
10	9.24	31.00	23.98	1483.
20	9.18	31.07	24.04	1483.
30	9.09	31.15	24.12	1483.
50	8.98	31.24	24.21	1483.
75	8.97	31.22	24.19	1483.
100	8.83	31.46	24.40	1483.
125	8.66	31.60	24.53	1483.
150	8.64	31.66	24.59	1483.
175	8.60	31.70	24.62	1484.
200	8.59	31.71	24.63	1484.
225	8.59	31.74	24.66	1485.
250	8.57	31.75	24.67	1485.
275	8.57	31.76	24.67	1485.
300	8.56	31.76	24.67	1486.
325	8.57	31.77	24.69	1486.
350	8.58	31.78	24.69	1487.
375	8.58	31.77	24.68	1487.
400	8.59	31.77	24.68	1487.
425	8.58	31.78	24.69	1488.
450	8.56	31.83	24.73	1488.
475	8.58	31.82	24.72	1489.

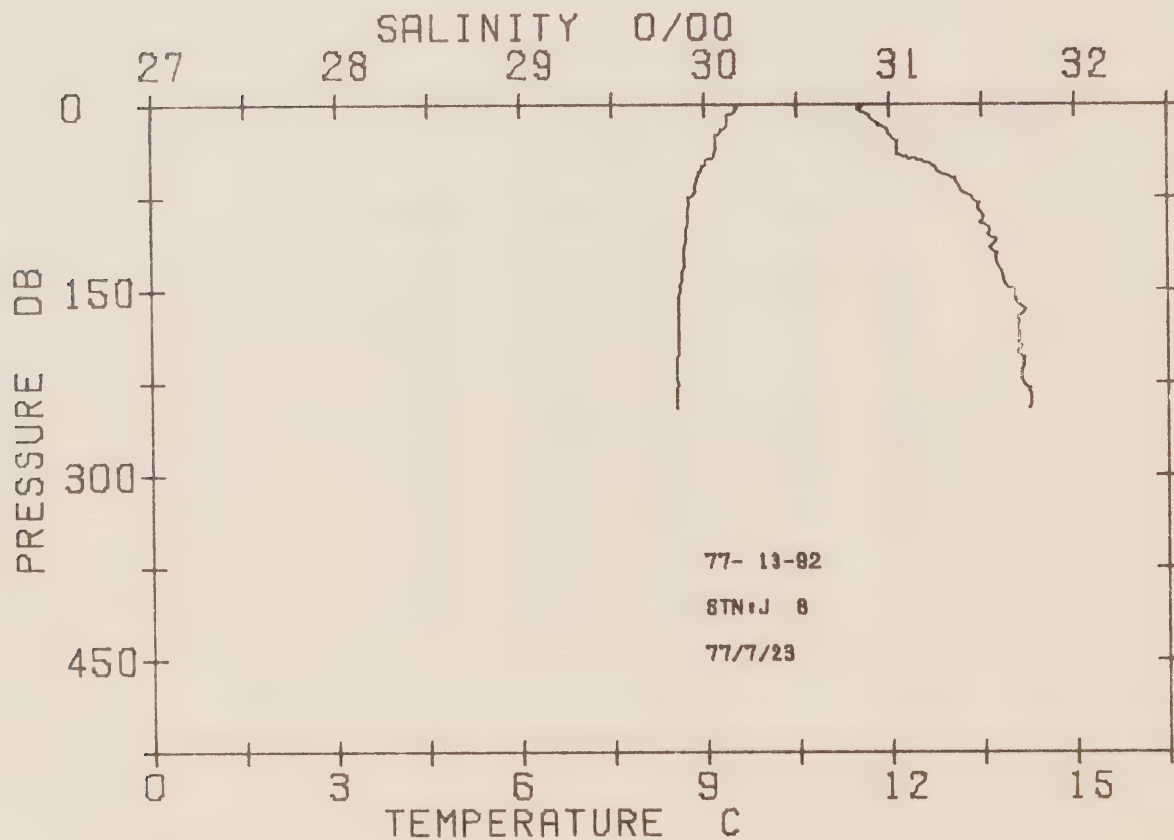
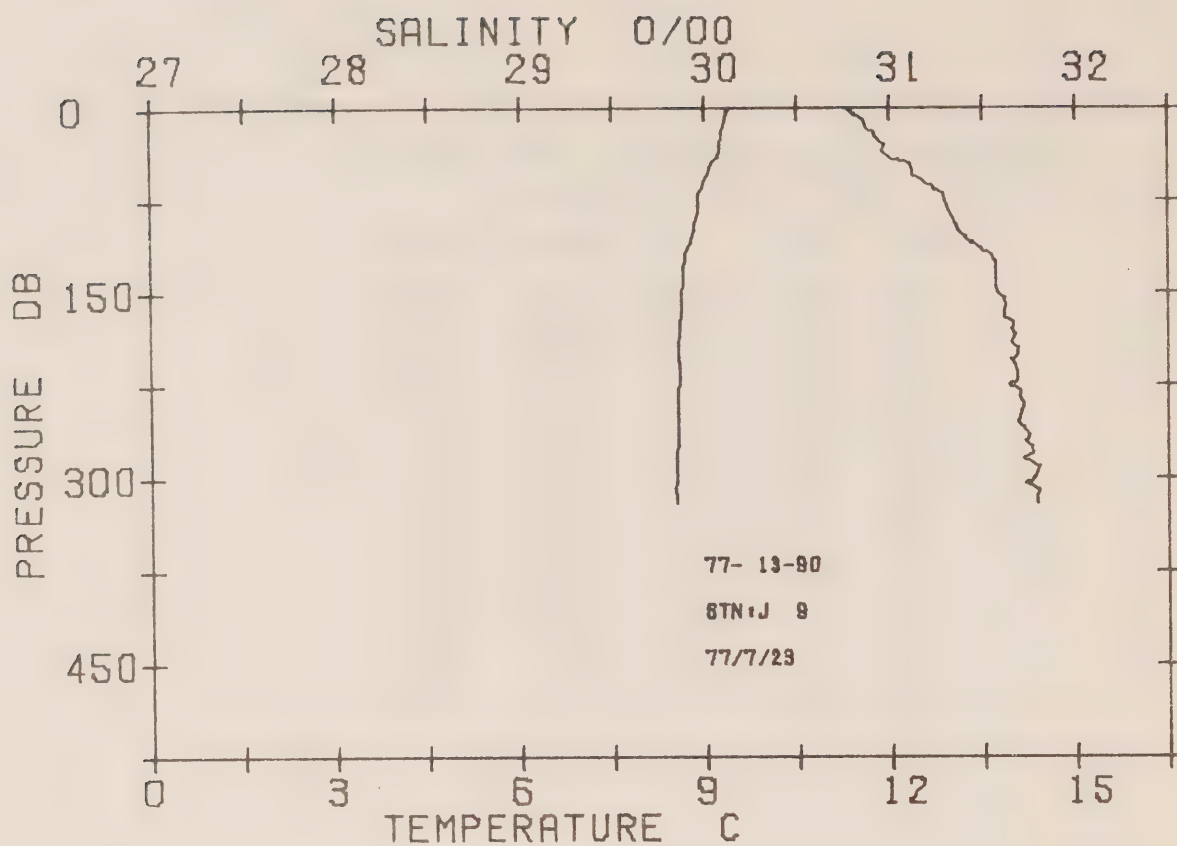


STATION J115 CRUISE 77-13 CONS # 87
 POSITION 50-30.0N 126-35.9W
 DATE 77/ 7/22 TIME 12: 9:46 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.10	30.90	23.77	1486.
10	9.46	30.92	23.89	1483.
20	9.19	31.05	24.03	1483.
30	9.03	31.18	24.15	1482.
50	8.77	31.45	24.41	1482.
75	8.73	31.49	24.44	1482.
100	8.70	31.56	24.50	1483.
125	8.64	31.66	24.59	1483.
150	8.59	31.69	24.62	1483.
175	8.55	31.74	24.66	1484.
200	8.54	31.75	24.67	1484.
225	8.52	31.77	24.69	1484.
250	8.52	31.81	24.72	1485.
275	8.53	31.78	24.69	1485.
300	8.52	31.81	24.72	1486.
325	8.52	31.80	24.72	1486.
350	8.51	31.82	24.73	1486.
375	8.51	31.82	24.73	1487.

STATION J 10 CRUISE 77-13 CONS # 89
 POSITION 50-29.7N 126-18.7W
 DATE 77/ 7/23 TIME 0:44:18 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.67	30.81	23.76	1484.
10	9.53	30.89	23.85	1484.
20	9.43	30.98	23.93	1483.
30	9.15	31.07	24.05	1483.
50	9.01	31.15	24.14	1483.
75	8.77	31.45	24.41	1482.
100	8.62	31.62	24.55	1483.
125	8.58	31.66	24.60	1483.
150	8.55	31.72	24.64	1483.
175	8.55	31.71	24.64	1484.
200	8.54	31.72	24.65	1484.
225	8.53	31.73	24.66	1484.
250	8.52	31.76	24.68	1485.
275	8.52	31.77	24.69	1485.
300	8.52	31.78	24.70	1486.
325	8.50	31.79	24.71	1486.

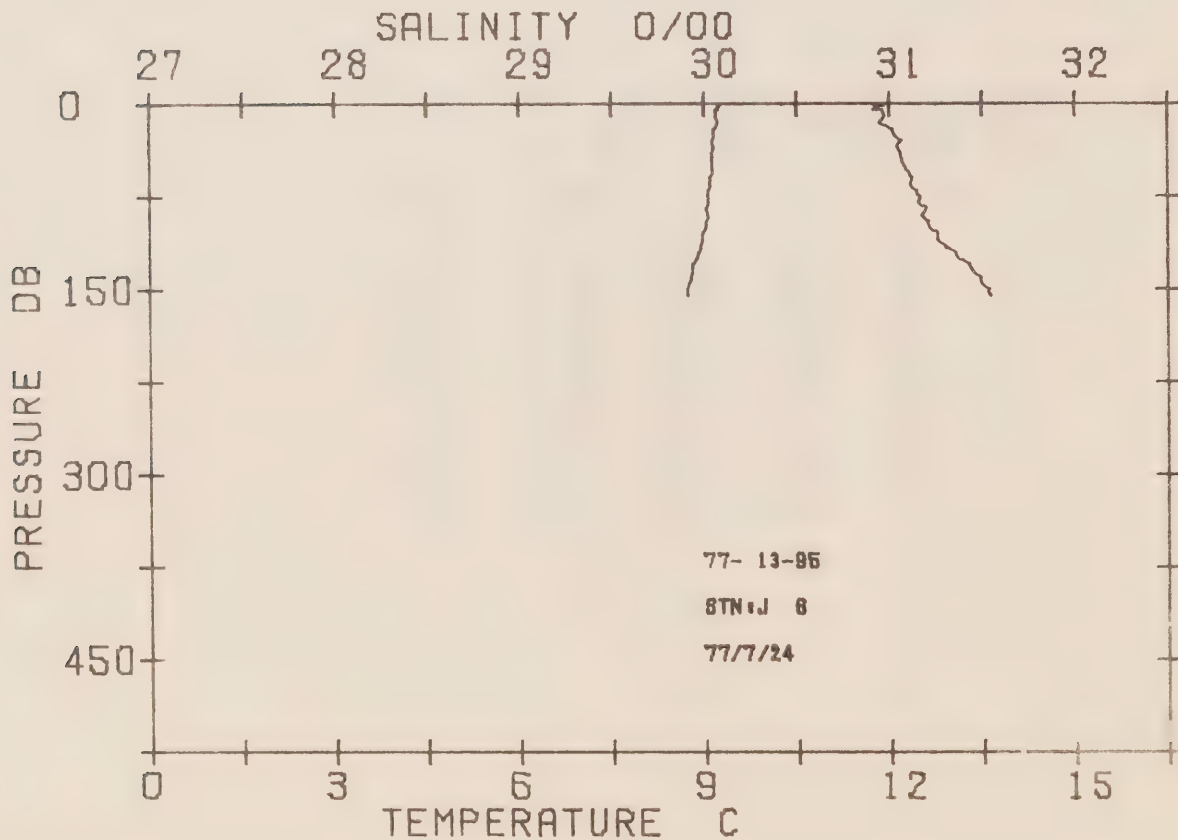
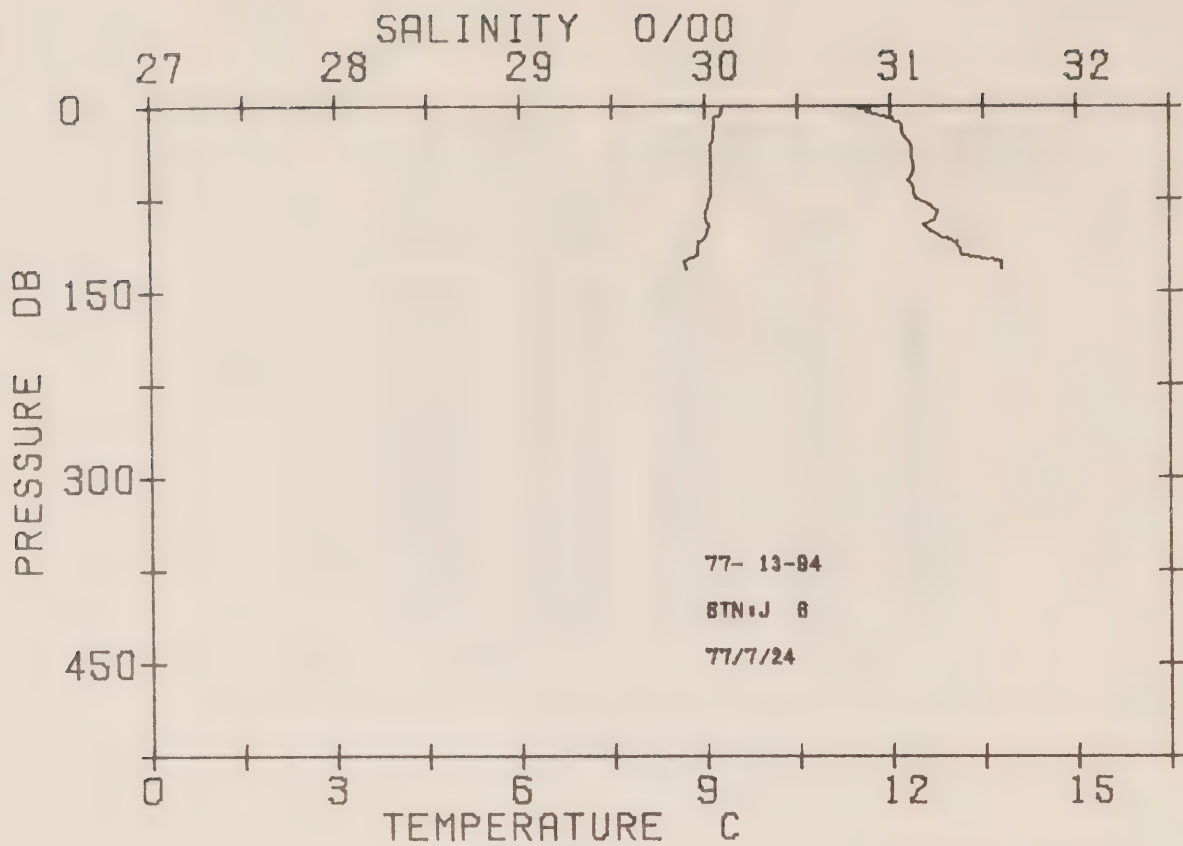


STATION J 9 CRUISE 77-13 CONS # 90
 POSITION 50-28.5N 126-10.7W
 DATE 77/ 7/23 TIME 7:36: 5 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.40	30.78	23.79	1483.
10	9.34	30.86	23.86	1483.
20	9.29	30.92	23.91	1483.
30	9.26	30.97	23.95	1483.
50	9.09	31.12	24.10	1483.
75	8.91	31.30	24.26	1483.
100	8.85	31.37	24.33	1483.
125	8.68	31.57	24.51	1483.
150	8.64	31.58	24.52	1483.
175	8.58	31.67	24.61	1484.
200	8.57	31.69	24.62	1484.
225	8.58	31.65	24.59	1484.
250	8.56	31.70	24.63	1485.
275	8.56	31.76	24.68	1485.
300	8.52	31.77	24.69	1486.

STATION J 8 CRUISE 77-13 CONS # 92
 POSITION 50-27.5N 126- 3.4W
 DATE 77/ 7/23 TIME 17:49: 1 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.53	30.85	23.82	1483.
10	9.38	30.90	23.88	1483.
20	9.28	30.99	23.96	1483.
30	9.19	31.04	24.02	1483.
50	8.96	31.25	24.22	1483.
75	8.76	31.45	24.40	1482.
100	8.70	31.54	24.48	1483.
125	8.66	31.57	24.51	1483.
150	8.58	31.67	24.60	1483.
175	8.55	31.70	24.63	1484.
200	8.55	31.69	24.62	1484.
225	8.55	31.72	24.65	1484.

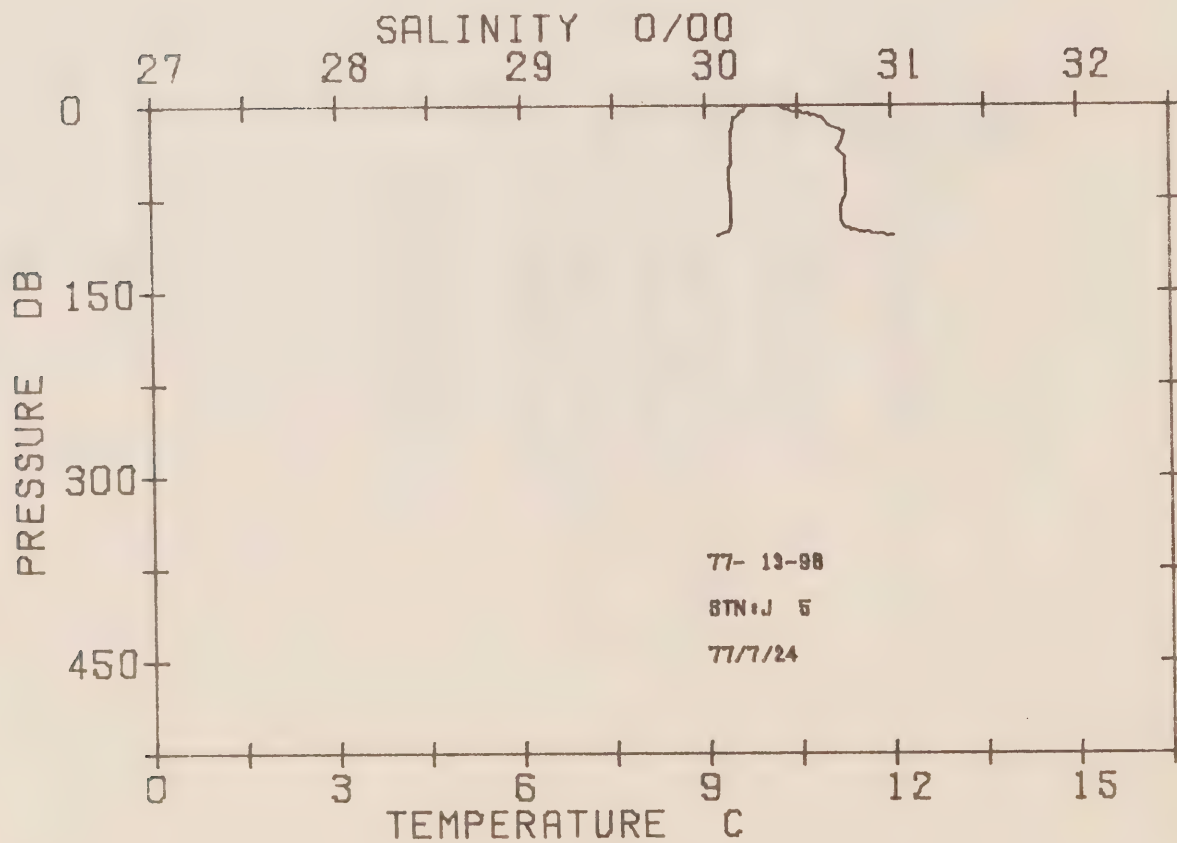
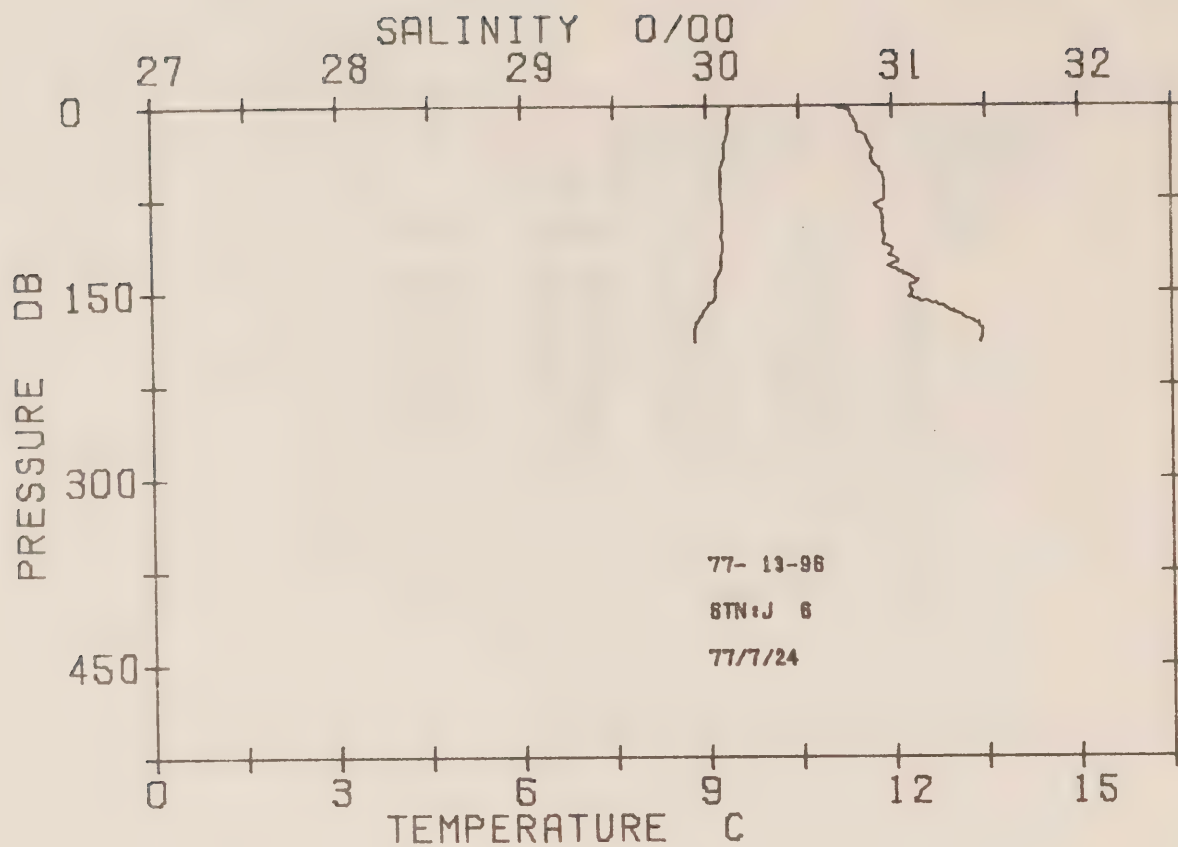


STATION J 6 CRUISE 77-13 CONS # 94
 POSITION 50-26.4N 126- .7W
 DATE 77/ 7/24 TIME 2:13: 6 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.28	30.89	23.89	1482.
10	9.17	31.01	24.00	1482.
20	9.13	31.05	24.04	1482.
30	9.09	31.11	24.09	1483.
50	9.09	31.13	24.10	1483.
75	9.05	31.15	24.12	1483.
100	9.03	31.21	24.17	1484.
125	8.65	31.59	24.53	1483.

STATION J 6 CRUISE 77-13 CONS # 95
 POSITION 50-26.4N 126- .7W
 DATE 77/ 7/24 TIME 2:35:37 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.25	30.94	23.93	1482.
10	9.20	30.98	23.97	1482.
20	9.16	31.02	24.01	1483.
30	9.14	31.06	24.04	1483.
50	9.11	31.08	24.06	1483.
75	9.06	31.17	24.14	1483.
100	9.02	31.22	24.18	1484.
125	8.87	31.38	24.33	1484.
150	8.71	31.53	24.48	1484.

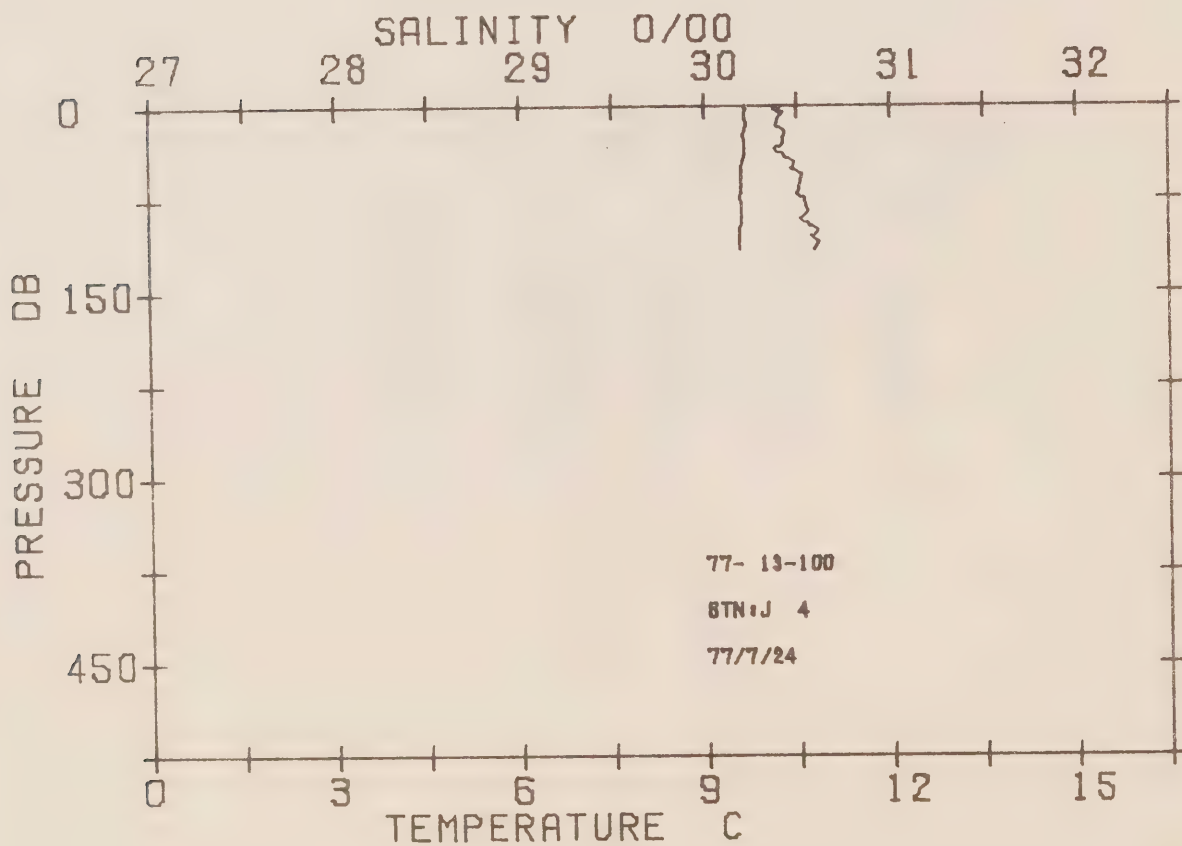
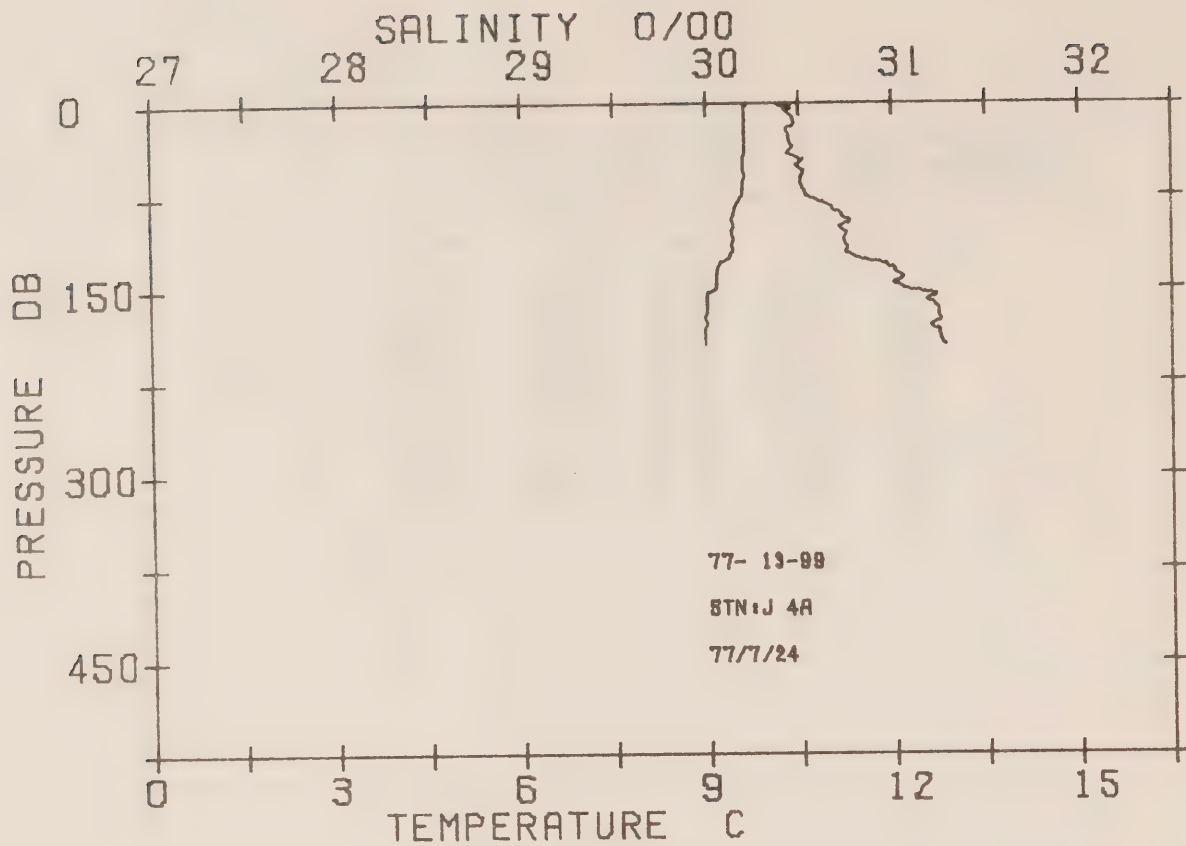


STATION J 6 CRUISE 77-13 CONS # 96
 POSITION 50-26.4N 126- .7W
 DATE 77/ 7/24 TIME 4:34:18 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.38	30.75	23.76	1483.
10	9.35	30.79	23.80	1483.
20	9.33	30.81	23.82	1483.
30	9.28	30.87	23.87	1483.
50	9.23	30.93	23.93	1483.
75	9.23	30.96	23.95	1484.
100	9.24	30.95	23.94	1484.
125	9.23	31.03	24.00	1484.
150	9.14	31.10	24.07	1485.
175	8.81	31.46	24.40	1484.

STATION J 5 CRUISE 77-13 CONS # 98
 POSITION 50-24.5N 125-56.8W
 DATE 77/ 7/24 TIME 6: 5:18 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.65	30.41	23.45	1483.
10	9.47	30.64	23.66	1483.
20	9.40	30.75	23.76	1483.
30	9.42	30.73	23.74	1483.
50	9.39	30.75	23.76	1484.
75	9.41	30.74	23.75	1484.
100	9.39	30.78	23.78	1484.

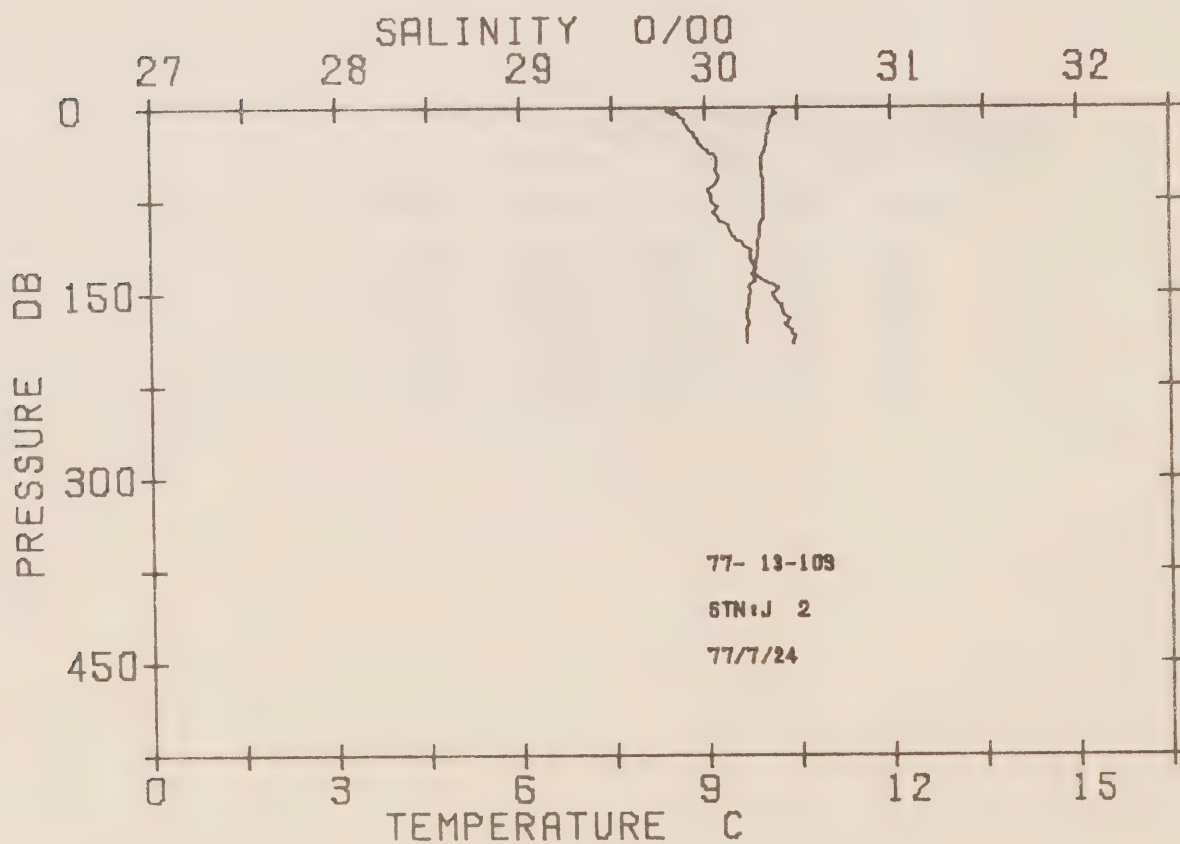
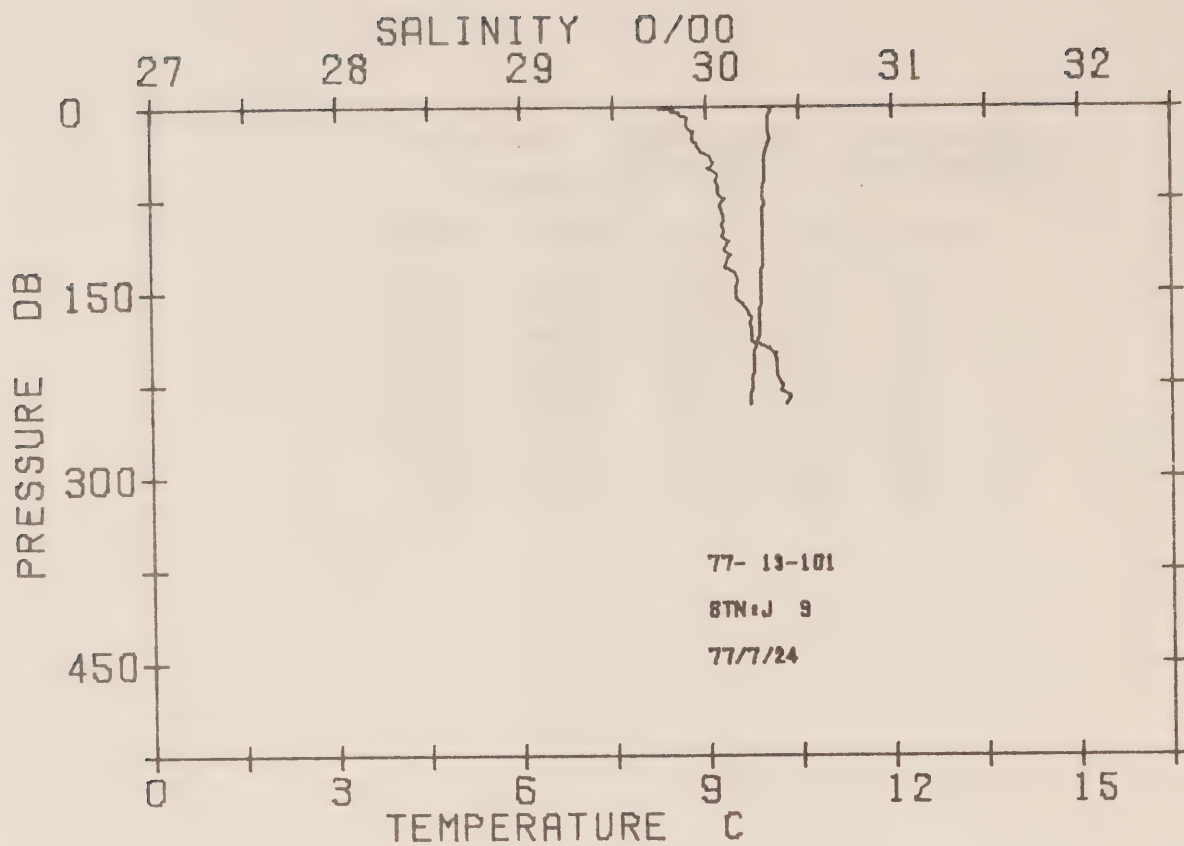


STATION J 4A CRUISE 77-13 CONS # 99
 POSITION 50-23.5N 125-53.4W
 DATE 77/ 7/24 TIME 6:28:36 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.66	30.42	23.46	1483.
10	9.62	30.47	23.51	1483.
20	9.64	30.44	23.48	1484.
30	9.64	30.45	23.49	1484.
50	9.60	30.49	23.53	1484.
75	9.58	30.54	23.57	1484.
100	9.44	30.72	23.73	1484.
125	9.38	30.80	23.81	1485.
150	9.16	31.06	24.04	1485.
175	8.98	31.26	24.22	1485.

STATION J 4 CRUISE 77-13 CONS #100
 POSITION 50-22.7N 125-47.0W
 DATE 77/ 7/24 TIME 7: 4: 9 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.66	30.40	23.44	1483.
10	9.66	30.40	23.45	1483.
20	9.65	30.44	23.48	1484.
30	9.66	30.43	23.47	1484.
50	9.60	30.47	23.51	1484.
75	9.57	30.54	23.57	1484.
100	9.55	30.61	23.63	1485.

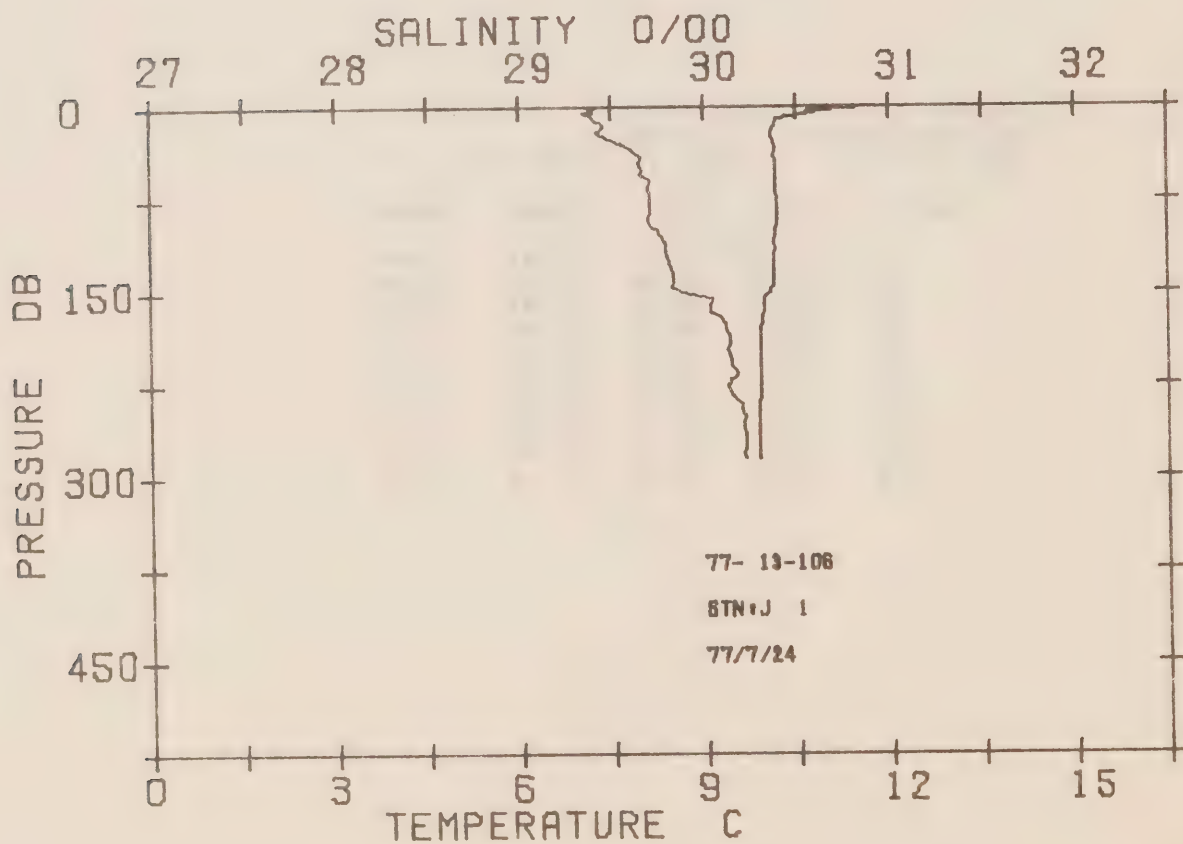
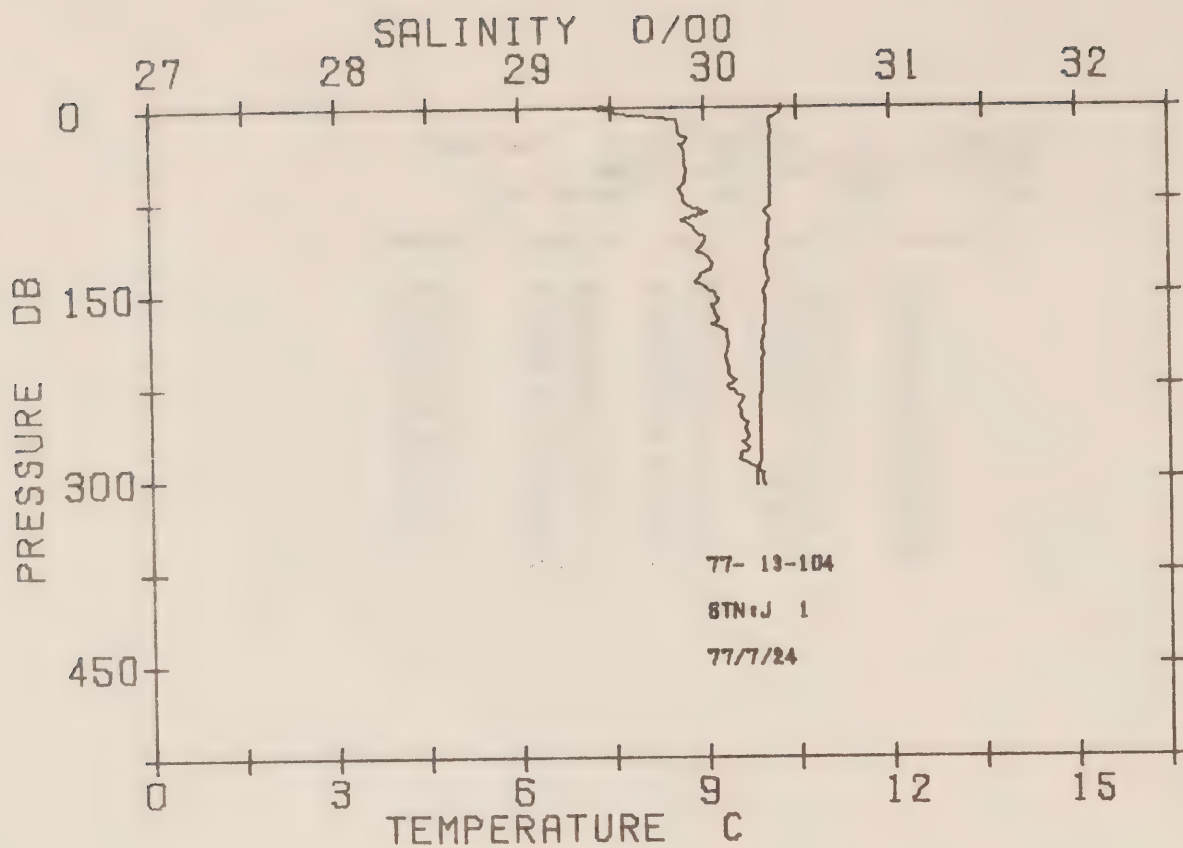


STATION J 3 CRUISE 77-13 CONS #101
 POSITION 50-22.2N 125-39.0W
 DATE 77/ 7/24 TIME 7:44:58 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.03	29.76	22.89	1484.
10	10.00	29.90	23.01	1484.
20	10.00	29.93	23.03	1484.
30	10.01	29.95	23.04	1484.
50	9.93	30.01	23.10	1485.
75	9.92	30.09	23.16	1485.
100	9.91	30.09	23.17	1485.
125	9.91	30.10	23.18	1486.
150	9.89	30.16	23.22	1486.
175	9.83	30.23	23.29	1486.
200	9.75	30.36	23.40	1487.
225	9.72	30.41	23.45	1487.

STATION J 2 CRUISE 77-13 CONS #103
 POSITION 50-22.2N 125-33.5W
 DATE 77/ 7/24 TIME 9: 6:58 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.13	29.85	22.94	1484.
10	10.06	29.89	22.99	1484.
20	10.03	29.94	23.03	1484.
30	10.00	29.96	23.06	1484.
50	9.92	30.05	23.14	1485.
75	9.94	30.03	23.12	1485.
100	9.87	30.14	23.21	1485.
125	9.81	30.25	23.30	1486.
150	9.73	30.36	23.41	1486.
175	9.69	30.43	23.46	1486.

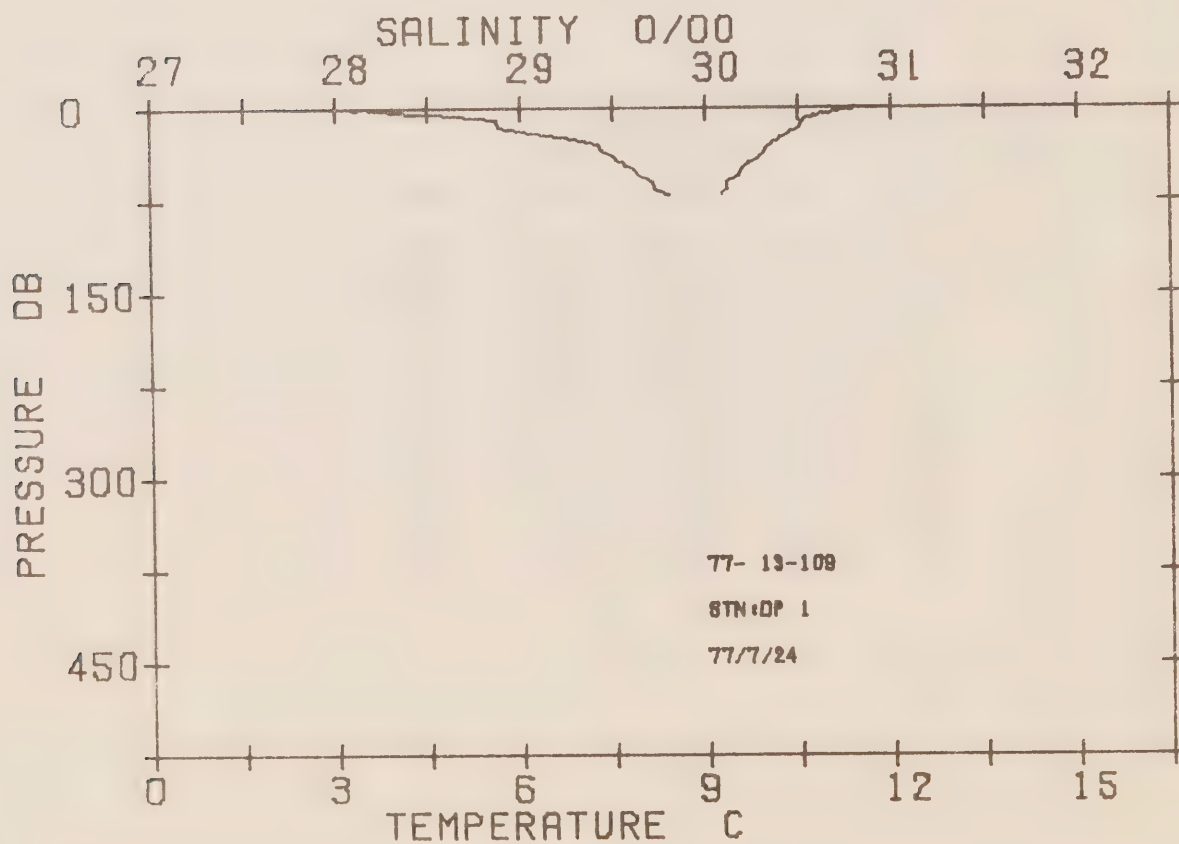
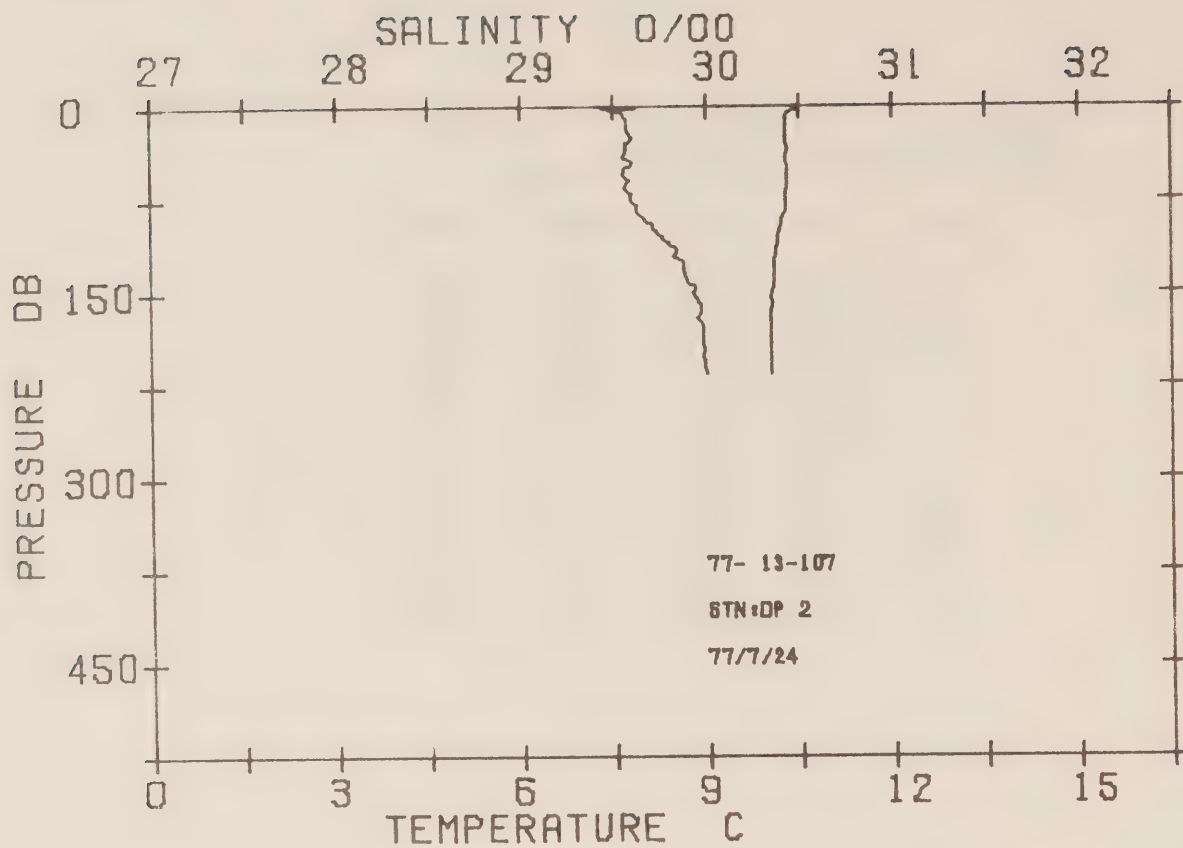


STATION J 1 CRUISE 77-13 CONS #104
 POSITION 50-20.7N 125-25.5W
 DATE 77/ 7/24 TIME 10: 5: 5 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.25	29.48	22.64	1484.
10	10.07	29.85	22.95	1484.
20	10.08	29.86	22.96	1484.
30	10.05	29.88	22.98	1485.
50	10.05	29.91	23.00	1485.
75	10.06	29.89	22.99	1485.
100	10.02	29.96	23.05	1486.
125	9.97	30.04	23.12	1486.
150	9.95	30.05	23.13	1486.
175	9.98	30.04	23.12	1487.
200	9.93	30.10	23.17	1487.
225	9.92	30.11	23.18	1488.
250	9.88	30.19	23.25	1488.
275	9.86	30.23	23.29	1488.
300	9.82	30.30	23.34	1489.

STATION J 1 CRUISE 77-13 CONS #106
 POSITION 50-20.7N 125-25.5W
 DATE 77/ 7/24 TIME 13: 3:30 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	11.42	29.43	22.40	1488.
10	10.19	29.41	22.59	1484.
20	10.10	29.43	22.62	1484.
30	10.13	29.55	22.71	1484.
50	10.15	29.67	22.80	1485.
75	10.18	29.71	22.83	1486.
100	10.17	29.75	22.86	1486.
125	10.13	29.81	22.91	1486.
150	10.07	29.89	22.99	1487.
175	9.93	30.11	23.18	1487.
200	9.91	30.14	23.20	1487.
225	9.91	30.12	23.19	1487.
250	9.87	30.22	23.27	1488.
275	9.87	30.22	23.27	1488.

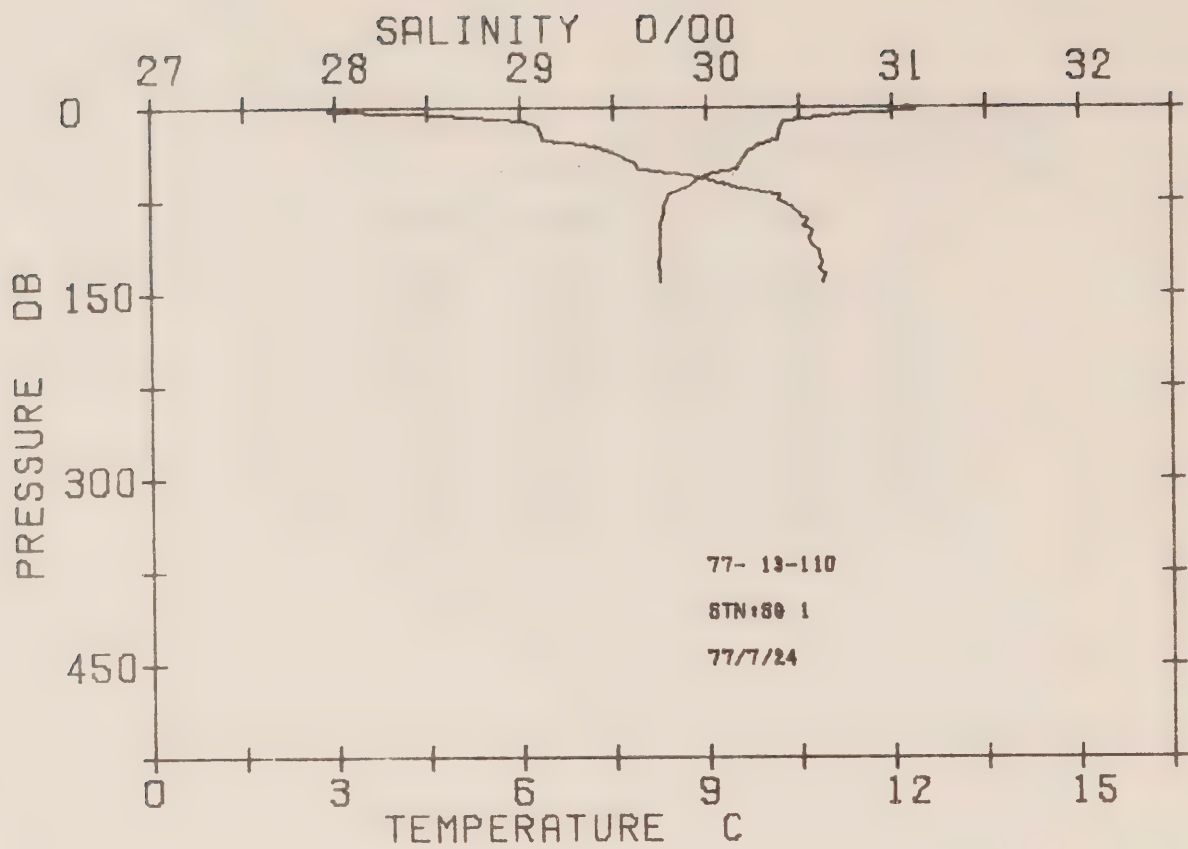


STATION DP 2 CRUISE 77-13 CONS #107
 POSITION 50-14.7N 125-23.0W
 DATE 77/ 7/24 TIME 14: 1:30 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.48	29.44	22.57	1485.
10	10.29	29.57	22.70	1485.
20	10.29	29.58	22.71	1485.
30	10.29	29.57	22.70	1485.
50	10.30	29.56	22.69	1485.
75	10.29	29.59	22.72	1486.
100	10.18	29.73	22.85	1486.
125	10.10	29.87	22.96	1486.
150	10.05	29.93	23.02	1487.
175	10.03	29.98	23.06	1487.
200	10.03	29.98	23.06	1487.

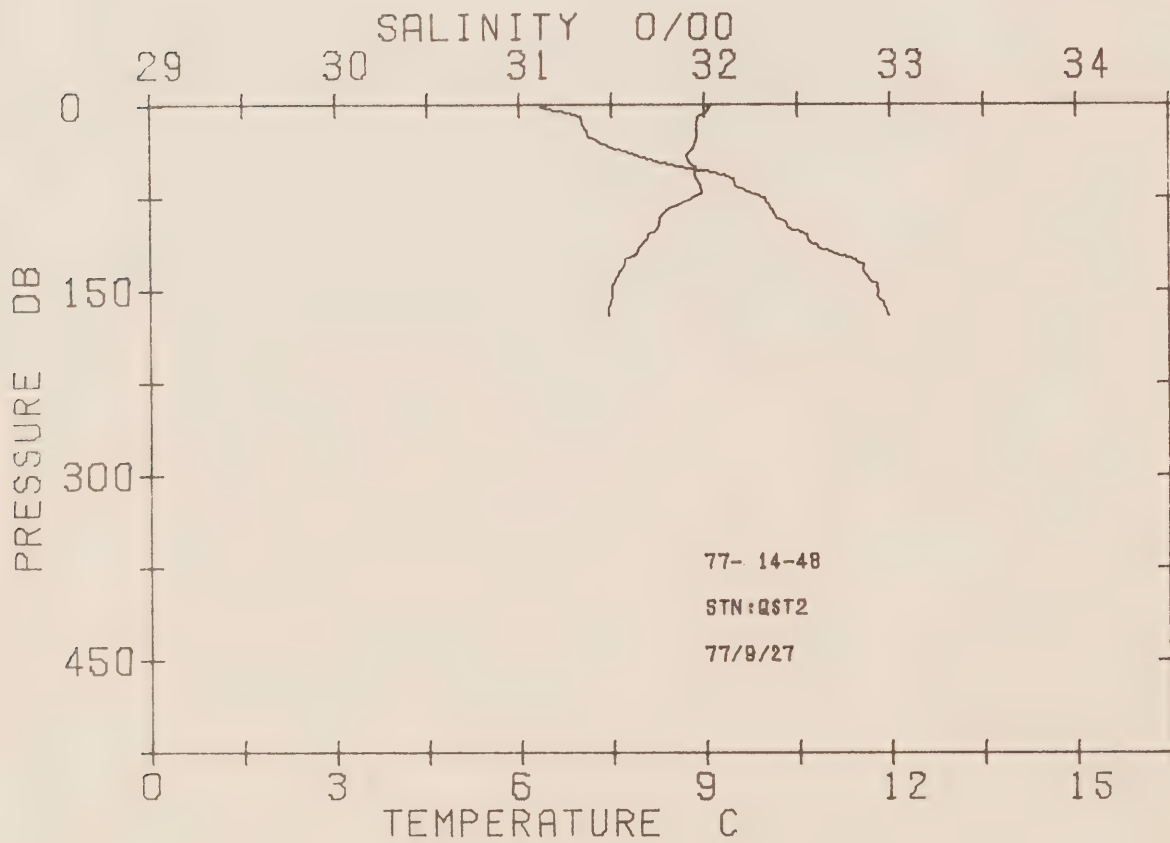
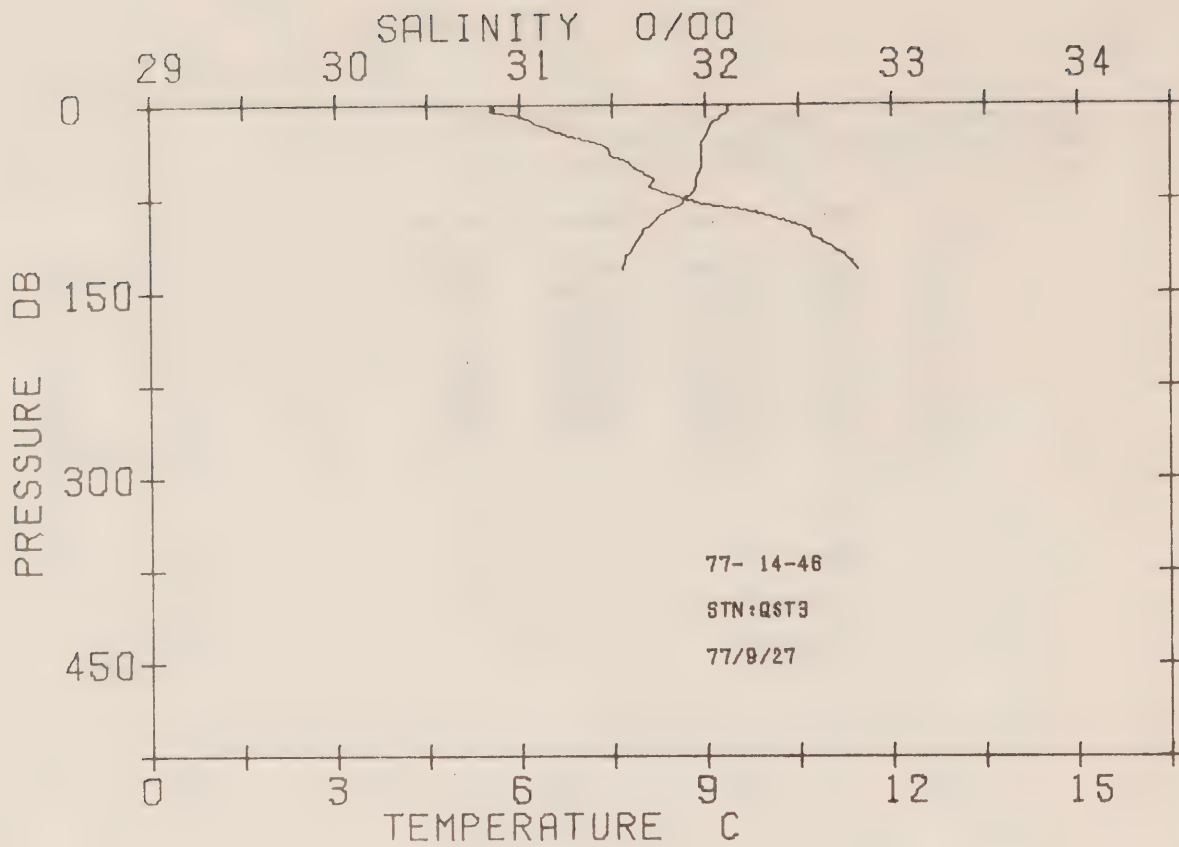
STATION DP 1 CRUISE 77-13 CONS #109
 POSITION 50- 5.1N 125-16.4W
 DATE 77/ 7/24 TIME 16:20:55 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	11.82	27.79	21.06	1488.
10	10.59	28.87	22.11	1485.
20	10.39	29.07	22.30	1485.
30	10.05	29.43	22.63	1484.
50	9.58	29.63	22.86	1483.



STATION SG 1 CRUISE 77-13 CONS #110
 POSITION 49-55.0N 125- 5.5W
 DATE 77/ 7/24 TIME 18:43:55 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	12.28	28.02	21.16	1490.
10	10.28	29.03	22.28	1484.
20	10.19	29.11	22.36	1484.
30	9.87	29.35	22.60	1483.
50	9.51	29.65	22.88	1483.
75	8.39	30.39	23.63	1480.
100	8.25	30.57	23.79	1480.
125	8.23	30.62	23.83	1480.

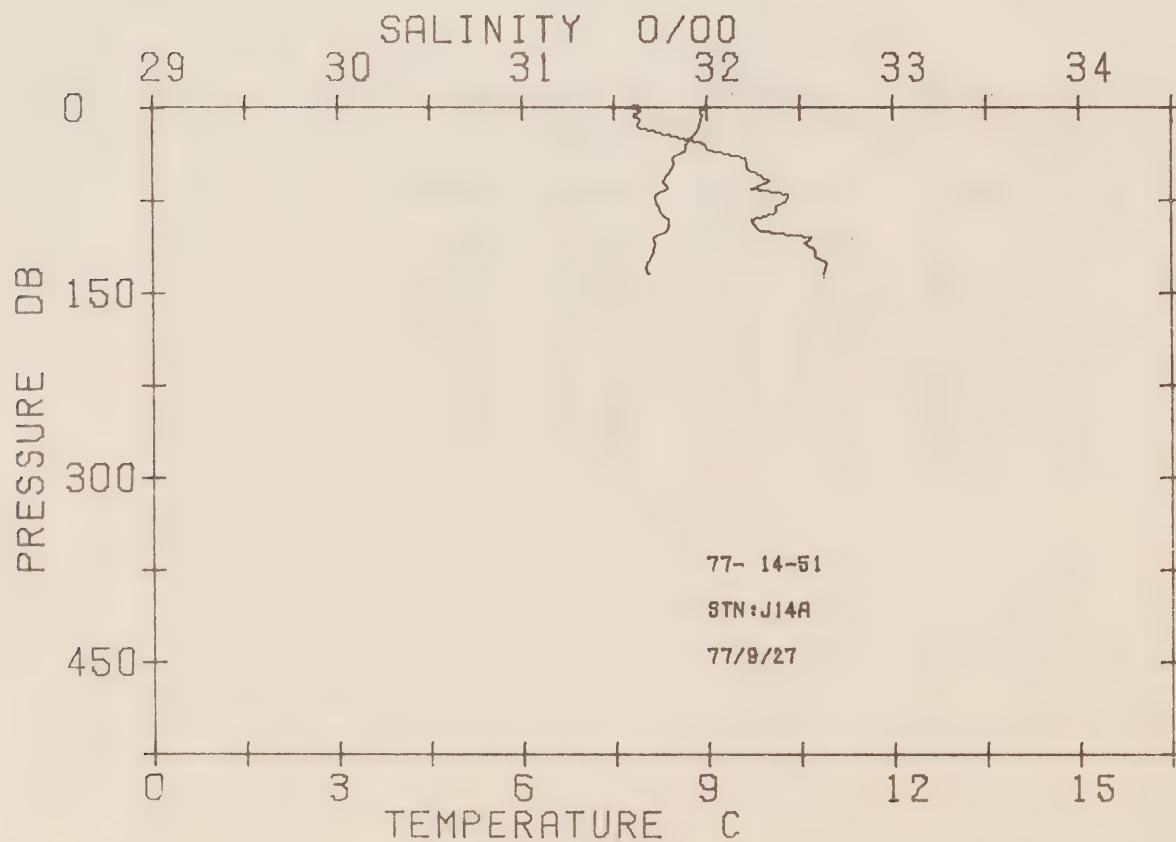
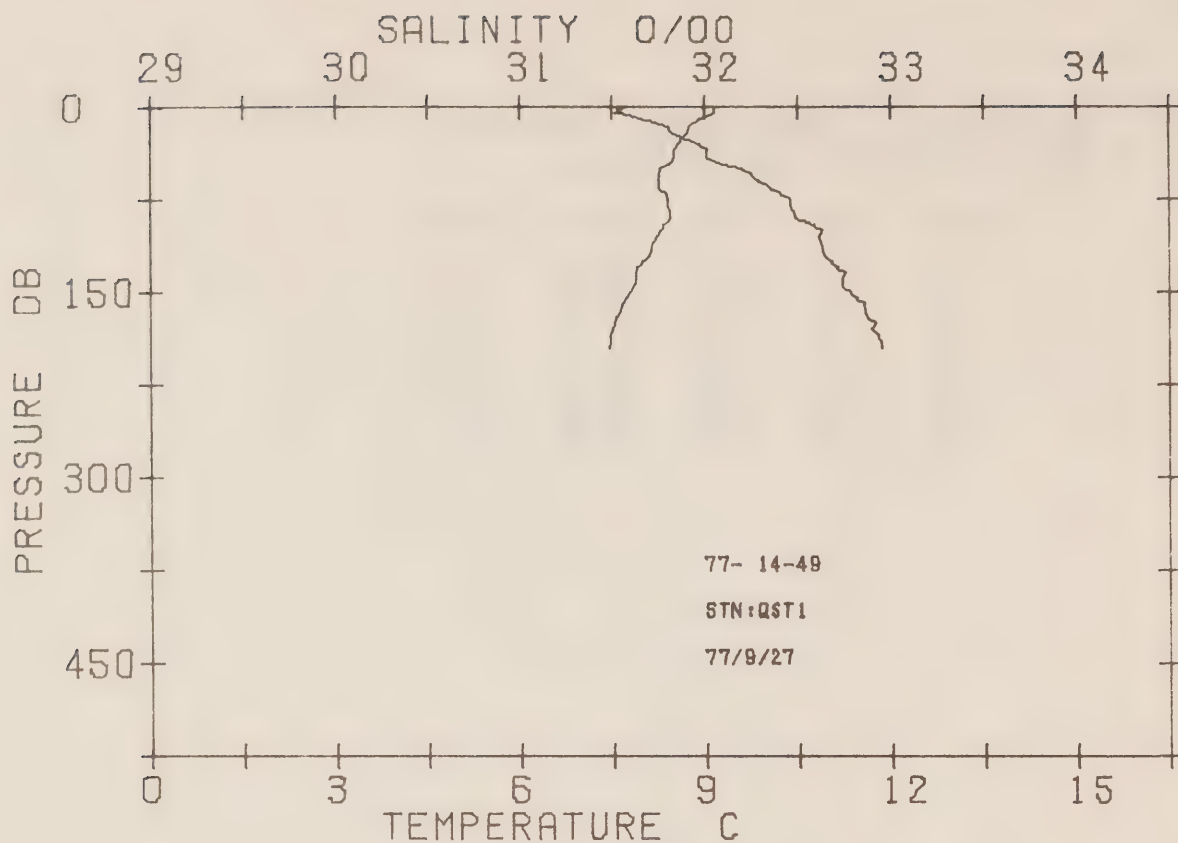


STATION QST3 CRUISE 77-14 CONS # 46
 POSITION 50-51.0N 127-20.0W
 DATE 77/ 9/27 TIME 10:53:15 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.36	30.85	23.85	1483.
10	9.25	31.01	23.98	1483.
20	9.03	31.18	24.16	1482.
30	8.95	31.41	24.34	1482.
50	8.93	31.61	24.50	1483.
75	8.67	31.89	24.76	1483.
100	8.00	32.56	25.38	1481.
125	7.69	32.78	25.60	1481.

STATION QST2 CRUISE 77-14 CONS # 48
 POSITION 50-45.0N 127- 8.2W
 DATE 77/ 9/27 TIME 12: 7:52 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.06	31.15	24.12	1482.
10	8.91	31.33	24.29	1482.
20	8.88	31.36	24.31	1482.
30	8.83	31.43	24.38	1482.
50	8.84	31.85	24.70	1483.
75	8.81	32.32	25.08	1484.
100	8.21	32.46	25.28	1482.
125	7.73	32.81	25.62	1491.
150	7.49	32.94	25.75	1481.

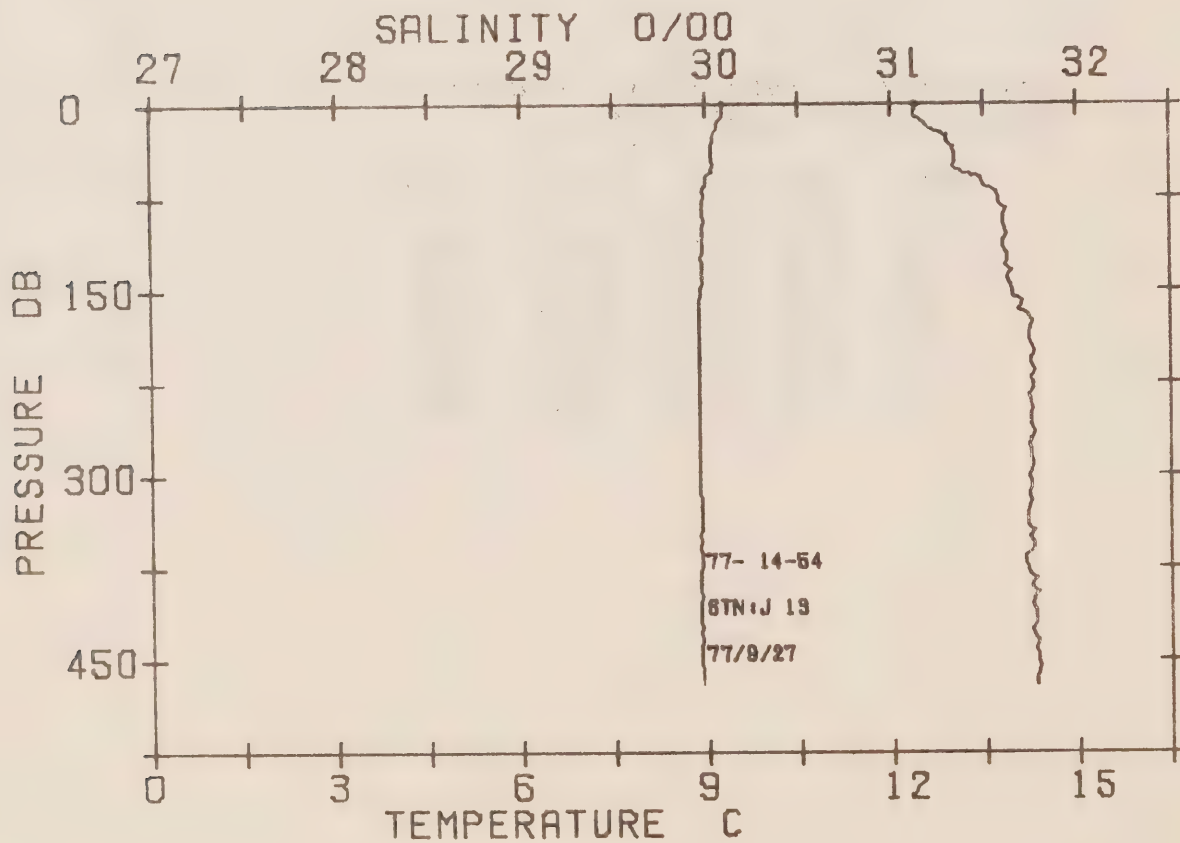
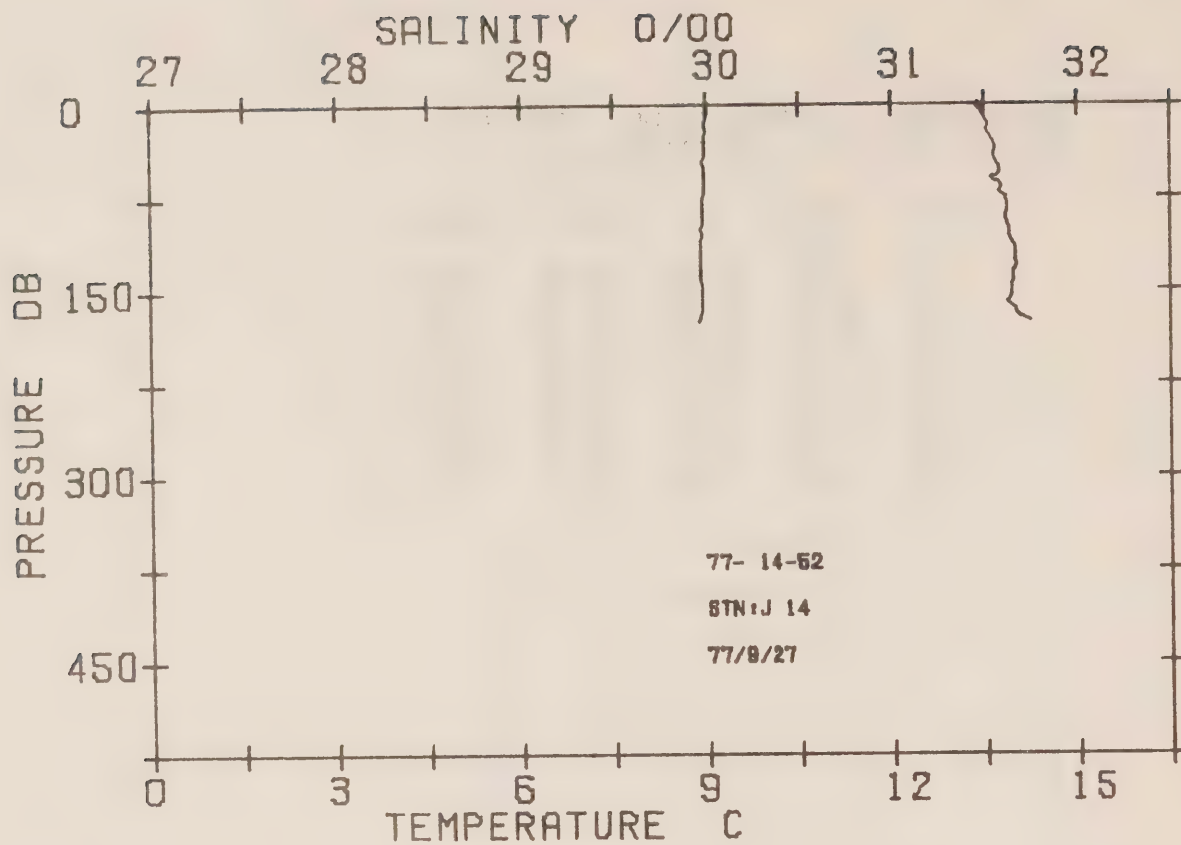


STATION QST1 CRUISE 77-14 CONS # 49
 POSITION 50-41.9N 126-55.5W
 DATE 77/ 9/27 TIME 13: 3:26 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.17	31.54	24.41	1483.
10	8.92	31.66	24.54	1482.
20	8.71	31.82	24.70	1482.
30	8.55	31.97	24.84	1482.
50	8.29	32.20	25.06	1481.
75	8.40	32.46	25.25	1482.
100	8.27	32.62	25.39	1482.
125	8.00	32.68	25.48	1482.
150	7.79	32.78	25.59	1482.
175	7.53	32.92	25.74	1481.

STATION J14A CRUISE 77-14 CONS # 51
 POSITION 50-36.4N 126-50.0W
 DATE 77/ 9/27 TIME 14:12:43 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.98	31.62	24.50	1482.
10	8.90	31.64	24.53	1482.
20	8.82	31.75	24.63	1482.
30	8.66	31.99	24.84	1482.
50	8.42	32.22	25.06	1482.
75	8.17	32.43	25.25	1481.
100	8.35	32.29	25.12	1482.
125	8.02	32.65	25.45	1482.

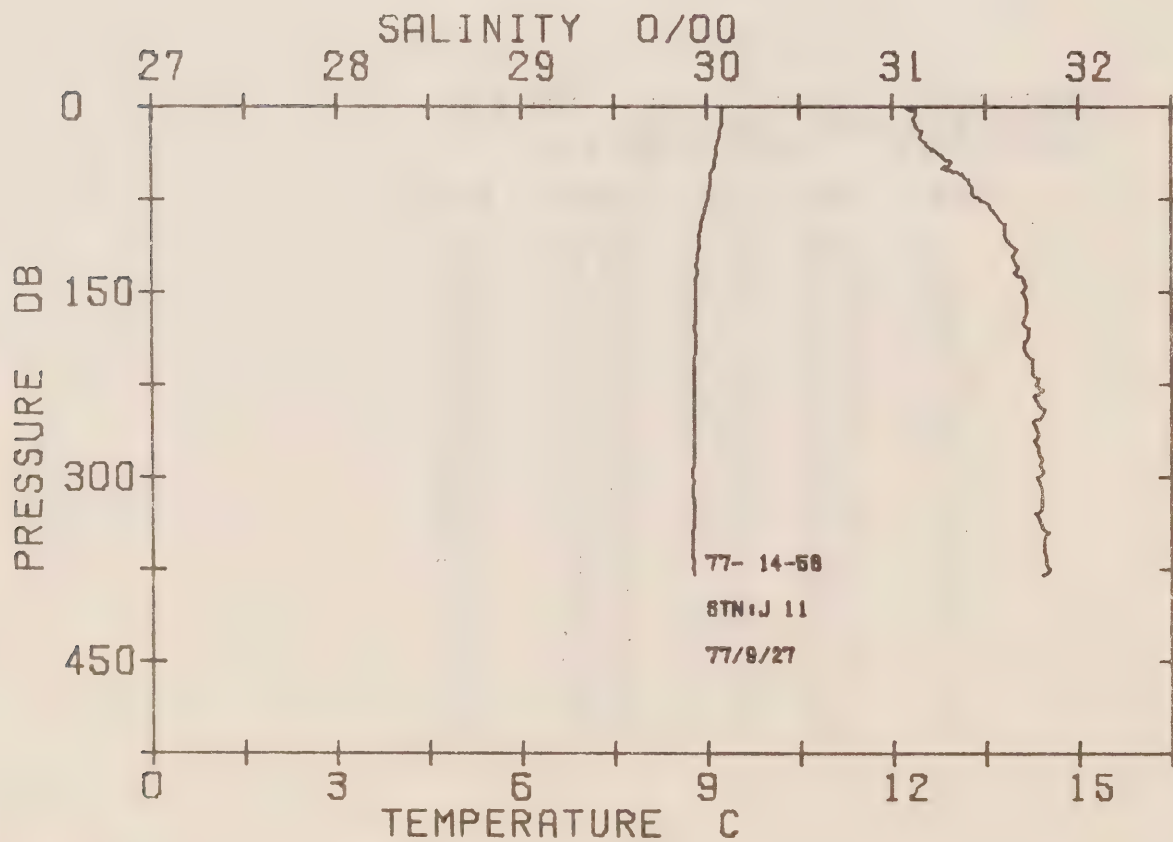
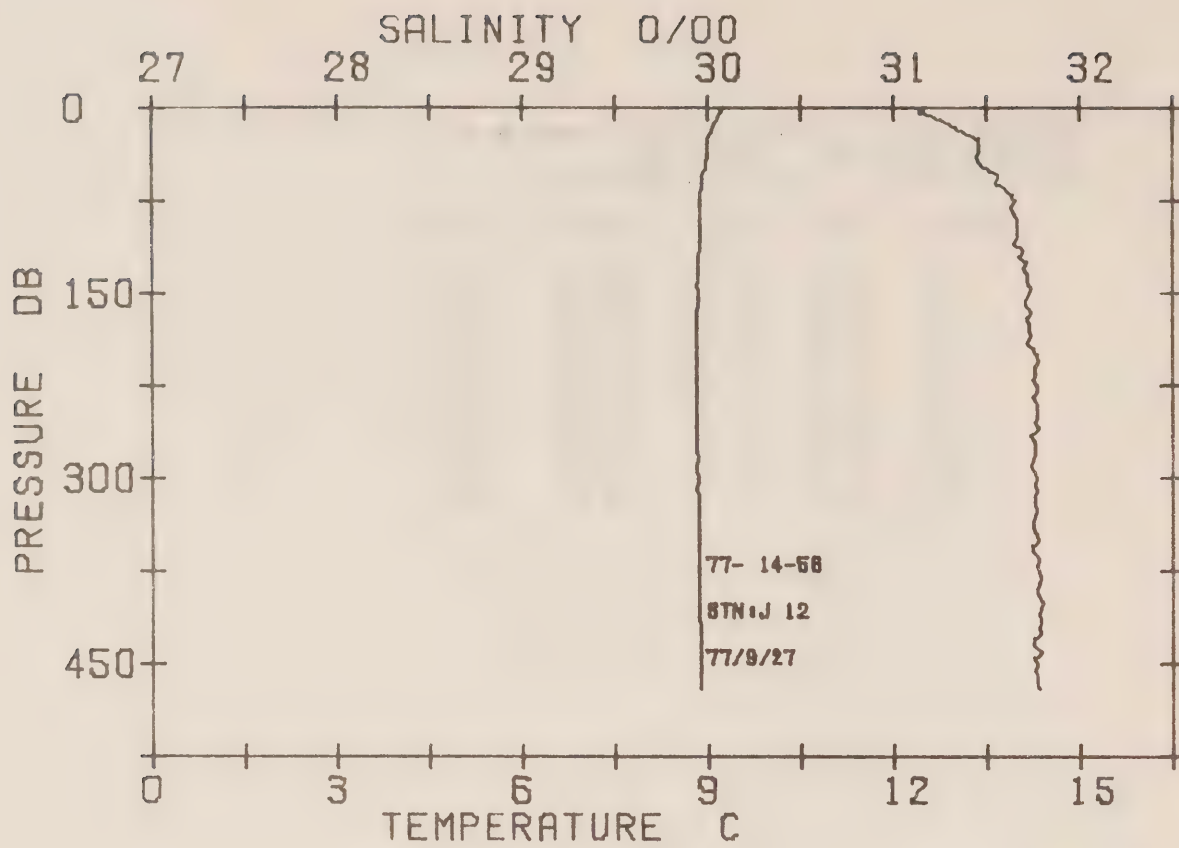


STATION J 14 CRUISE 77-14 CONS # 52
 POSITION 50-34.0N 126-52.0W
 DATE 77/ 9/27 TIME 14:52:43 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.03	31.46	24.37	1482.
10	9.00	31.50	24.40	1482.
20	9.00	31.51	24.42	1483.
30	8.96	31.55	24.45	1483.
50	8.96	31.58	24.48	1483.
75	8.94	31.61	24.50	1483.
100	8.92	31.64	24.53	1484.
125	8.92	31.67	24.55	1484.
150	8.93	31.65	24.53	1485.
175	8.88	31.75	24.62	1485.

STATION J 13 CRUISE 77-14 CONS # 54
 POSITION 50-33.3N 126-47.0W
 DATE 77/ 9/27 TIME 15:49:15 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.28	31.15	24.09	1483.
10	9.29	31.13	24.07	1483.
20	9.19	31.22	24.16	1483.
30	9.12	31.30	24.23	1483.
50	9.12	31.33	24.26	1483.
75	8.96	31.58	24.47	1483.
100	8.94	31.61	24.50	1484.
125	8.92	31.63	24.52	1484.
150	8.92	31.66	24.55	1485.
175	8.86	31.76	24.63	1485.
200	8.86	31.77	24.64	1485.
225	8.86	31.76	24.63	1486.
250	8.87	31.75	24.62	1486.
275	8.88	31.74	24.61	1487.
300	8.89	31.74	24.61	1487.
325	8.90	31.74	24.61	1487.
350	8.89	31.74	24.61	1488.
375	8.92	31.73	24.60	1488.
400	8.90	31.76	24.63	1489.
425	8.90	31.75	24.62	1489.
450	8.89	31.78	24.64	1489.

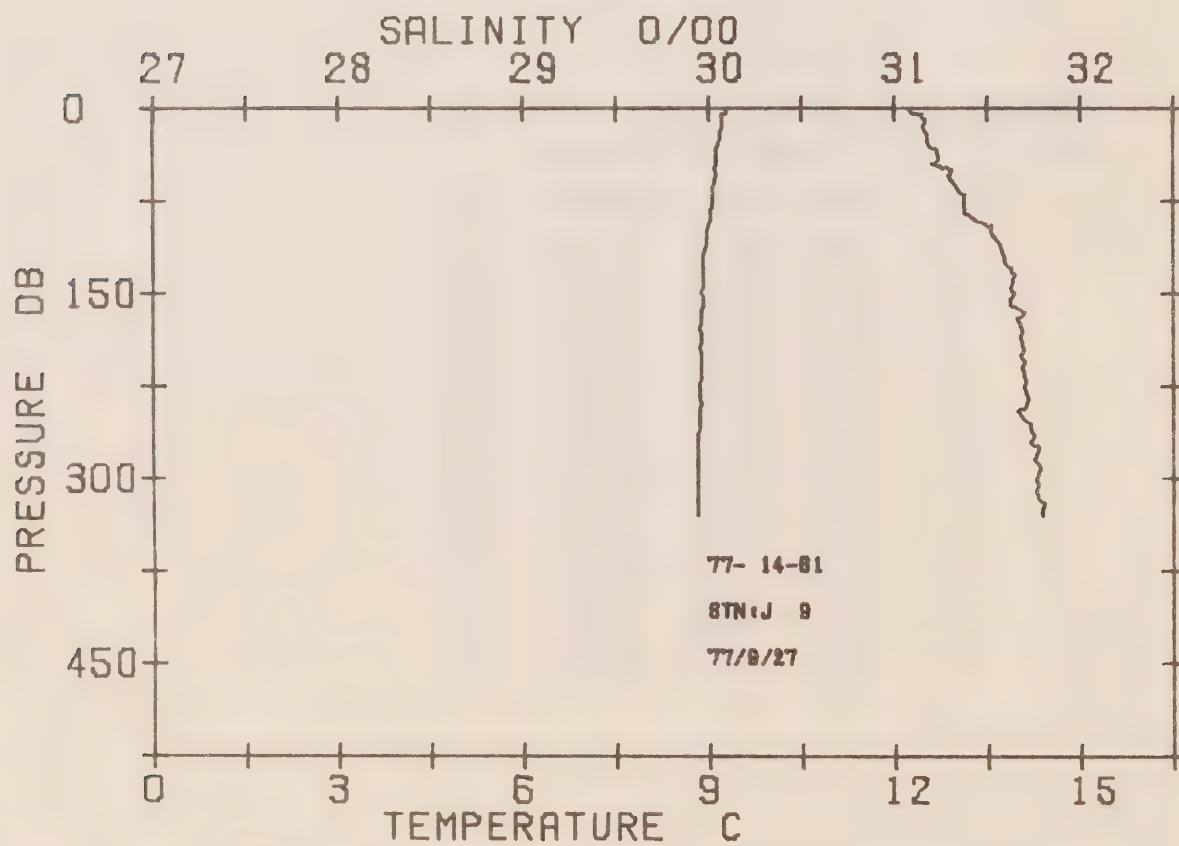
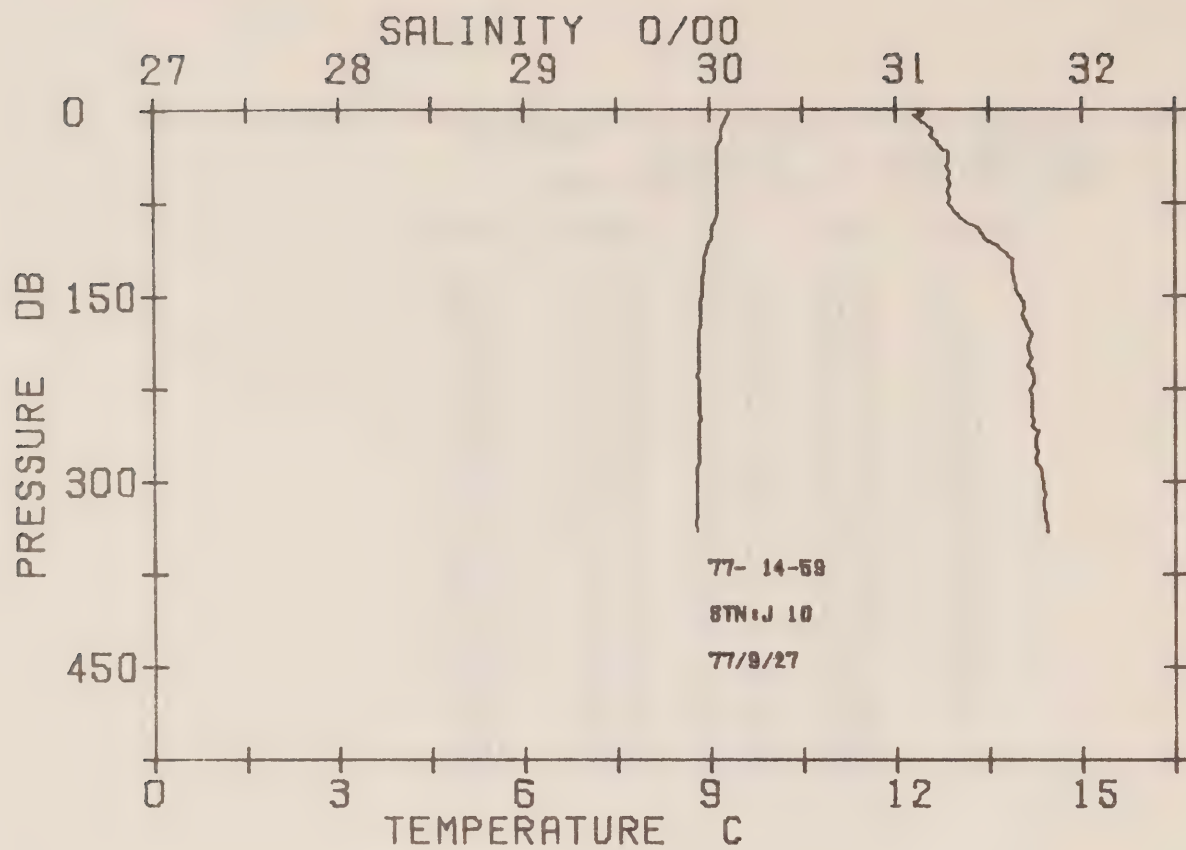


STATION J 12 CRUISE 77-14 CONS # 56
 POSITION 50-31.7N 126-41.0W
 DATE 77/ 9/27 TIME 17:46: 3 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.24	31.17	24.11	1483.
10	9.15	31.25	24.19	1483.
20	9.06	31.37	24.29	1483.
30	9.00	31.46	24.38	1483.
50	8.96	31.51	24.42	1483.
75	8.87	31.66	24.55	1483.
100	8.86	31.67	24.56	1483.
125	8.84	31.71	24.59	1484.
150	8.83	31.73	24.61	1484.
175	8.82	31.73	24.61	1485.
200	8.80	31.77	24.65	1485.
225	8.81	31.77	24.64	1485.
250	8.81	31.77	24.65	1486.
275	8.82	31.76	24.64	1486.
300	8.83	31.77	24.64	1487.
325	8.83	31.77	24.64	1487.
350	8.84	31.78	24.65	1488.
375	8.84	31.78	24.65	1488.
400	8.85	31.80	24.66	1489.
425	8.86	31.79	24.66	1489.
450	8.87	31.77	24.64	1489.

STATION J 11 CRUISE 77-14 CONS # 58
 POSITION 50-30.0N 126-30.0W
 DATE 77/ 9/27 TIME 19:34: 4 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	9.26	31.13	24.08	1483.
10	9.24	31.11	24.06	1483.
20	9.22	31.16	24.11	1483.
30	9.18	31.18	24.13	1483.
50	9.12	31.27	24.21	1483.
75	9.03	31.47	24.38	1483.
100	8.90	31.60	24.50	1484.
125	8.83	31.66	24.55	1484.
150	8.82	31.70	24.59	1484.
175	8.81	31.70	24.59	1485.
200	8.80	31.72	24.61	1485.
225	8.77	31.77	24.65	1485.
250	8.77	31.80	24.68	1486.
275	8.78	31.78	24.66	1486.
300	8.76	31.78	24.66	1487.
325	8.77	31.80	24.68	1487.
350	8.76	31.81	24.68	1487.
375	8.76	31.84	24.71	1488.

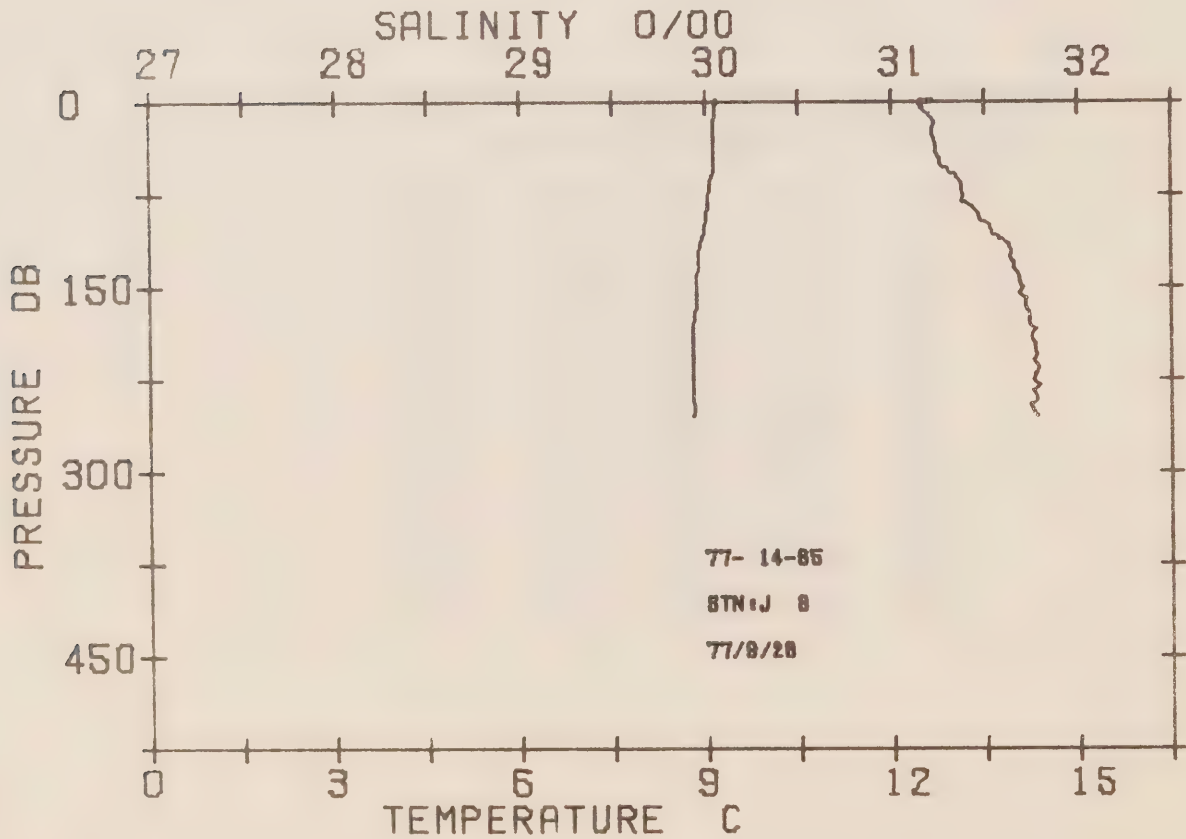
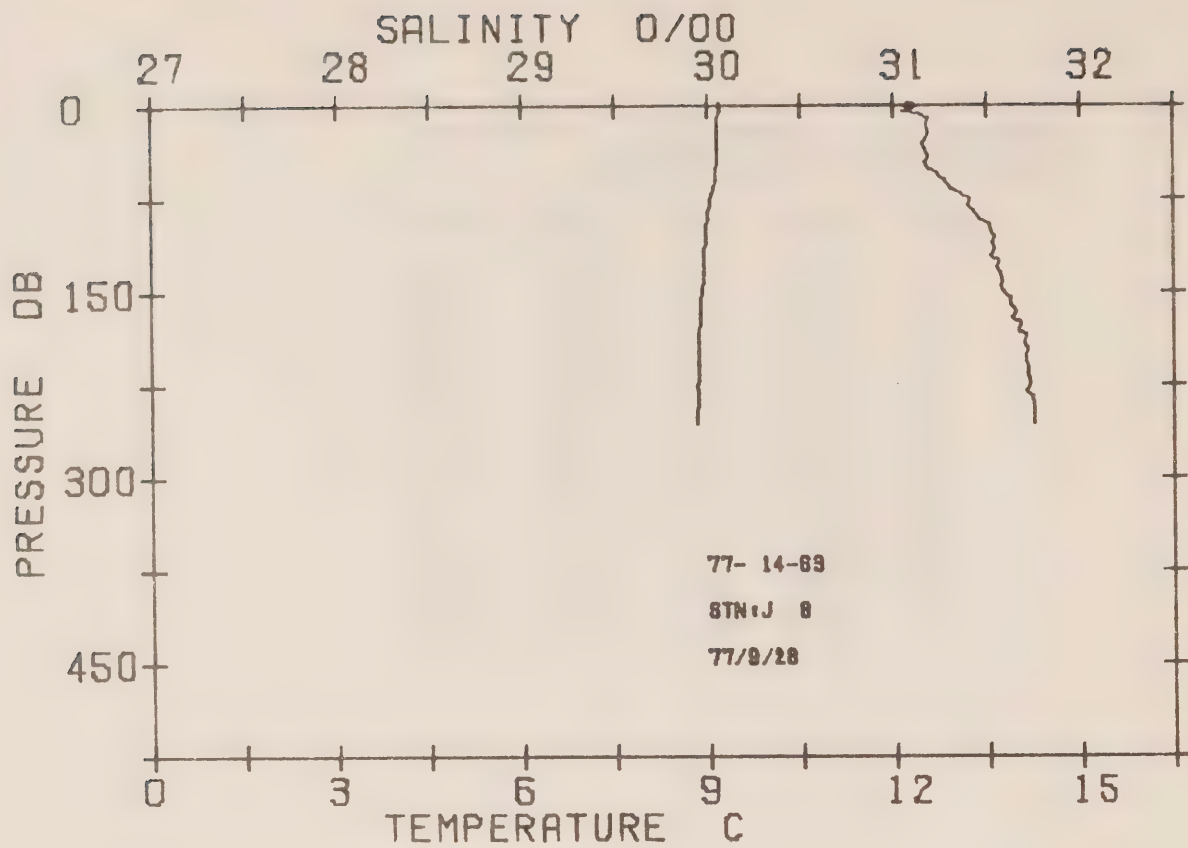


STATION J 10 CRUISE 77-14 CONS # 59
 POSITION 50-29.7N 126-18.7W
 DATE 77/ 9/27 TIME 20:30:42 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.31	31.14	24.08	1483.
10	9.26	31.14	24.08	1483.
20	9.20	31.19	24.14	1483.
30	9.14	31.24	24.18	1483.
50	9.12	31.29	24.22	1483.
75	9.12	31.28	24.21	1484.
100	9.03	31.47	24.38	1484.
125	8.90	31.62	24.51	1484.
150	8.86	31.67	24.56	1484.
175	8.83	31.71	24.60	1485.
200	8.80	31.73	24.62	1485.
225	8.80	31.72	24.61	1485.
250	8.83	31.74	24.62	1486.
275	8.80	31.76	24.64	1486.
300	8.78	31.79	24.66	1487.
325	8.77	31.80	24.67	1487.

STATION J 9 CRUISE 77-14 CONS # 61
 POSITION 50-28.5N 126-10.7W
 DATE 77/ 9/27 TIME 22:0:39 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.26	31.08	24.04	1483.
10	9.21	31.17	24.11	1483.
20	9.20	31.18	24.12	1483.
30	9.17	31.19	24.14	1483.
50	9.10	31.31	24.24	1483.
75	9.06	31.37	24.29	1483.
100	8.97	31.52	24.43	1484.
125	8.92	31.59	24.49	1484.
150	8.89	31.65	24.54	1484.
175	8.86	31.68	24.57	1485.
200	8.86	31.68	24.57	1485.
225	8.84	31.70	24.59	1486.
250	8.85	31.69	24.58	1486.
275	8.81	31.77	24.64	1486.
300	8.81	31.76	24.64	1487.
325	8.80	31.79	24.67	1487.

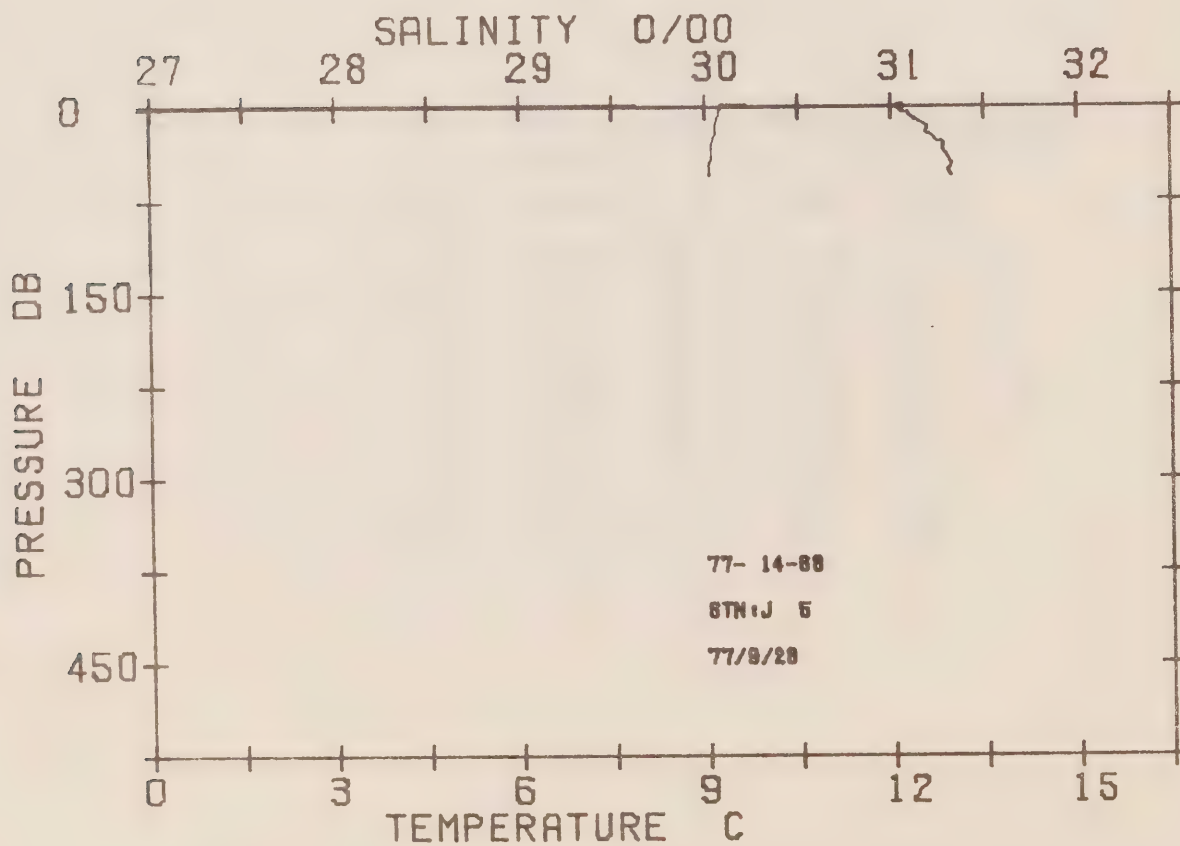
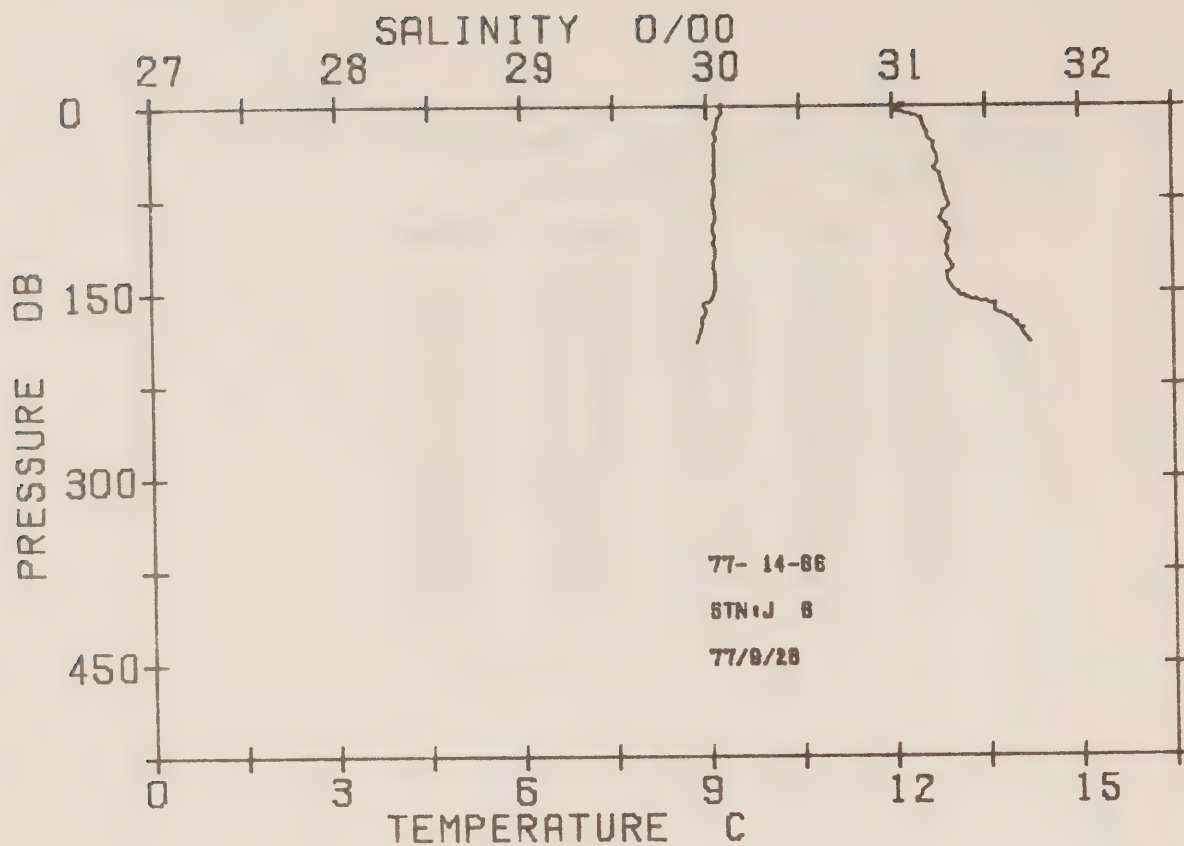


STATION J 8 CRUISE 77-14 CONS # 63
 POSITION 50-27.5N 126- 3.4W
 DATE 77/ 9/28 TIME 0:22:31 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.20	31.08	24.05	1482.
10	9.15	31.19	24.14	1483.
20	9.15	31.19	24.14	1483.
30	9.15	31.16	24.12	1483.
50	9.14	31.19	24.14	1483.
75	9.04	31.41	24.33	1483.
100	8.97	31.52	24.43	1484.
125	8.95	31.55	24.46	1484.
150	8.91	31.59	24.49	1484.
175	8.87	31.68	24.56	1485.
200	8.84	31.71	24.60	1485.
225	8.82	31.73	24.62	1485.
250	8.82	31.75	24.63	1486.

STATION J 8 CRUISE 77-14 CONS # 65
 POSITION 50-27.5N 126- 3.4W
 DATE 77/ 9/28 TIME 2: 2:17 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.18	31.20	24.15	1482.
10	9.15	31.20	24.15	1483.
20	9.13	31.22	24.17	1483.
30	9.13	31.23	24.18	1483.
50	9.11	31.26	24.20	1483.
75	9.04	31.39	24.32	1483.
100	8.97	31.53	24.43	1484.
125	8.89	31.64	24.53	1484.
150	8.85	31.71	24.59	1484.
175	8.81	31.74	24.62	1485.
200	8.79	31.77	24.65	1485.
225	8.79	31.76	24.64	1485.
250	8.80	31.76	24.64	1486.

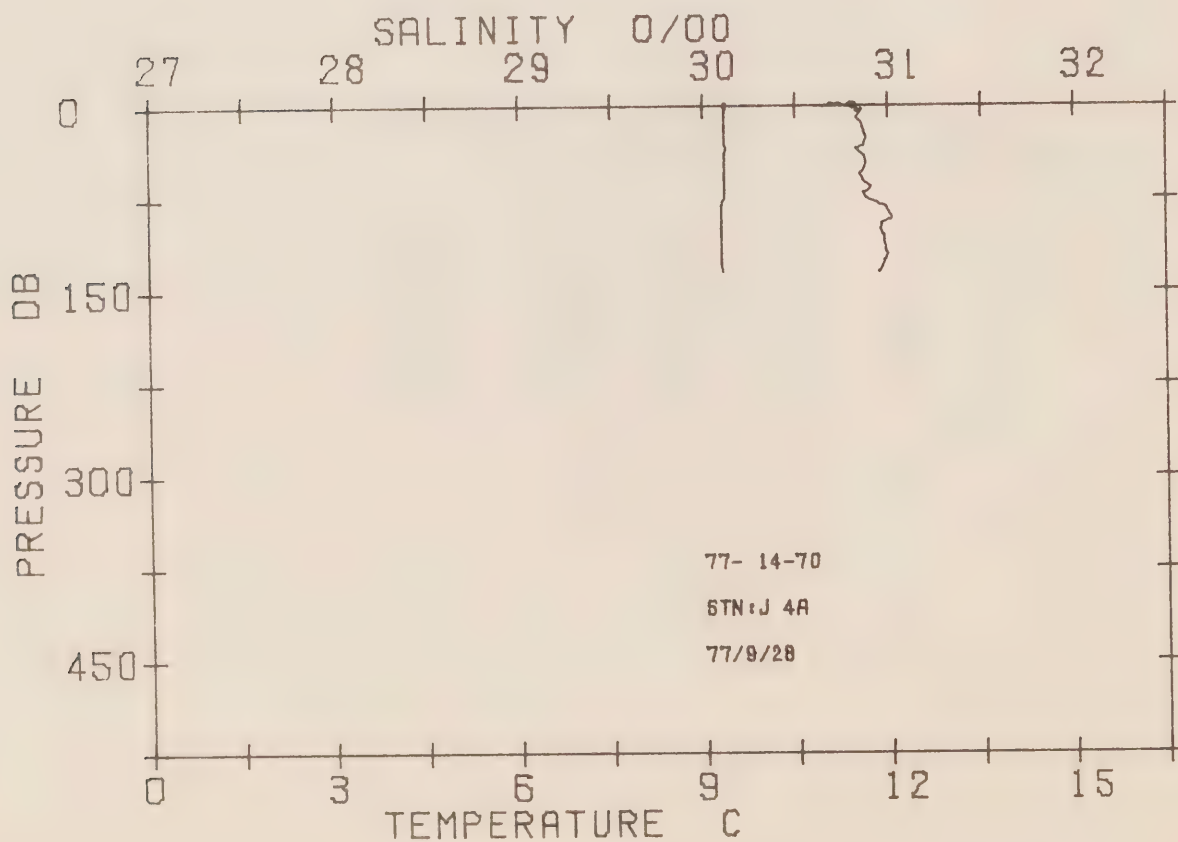
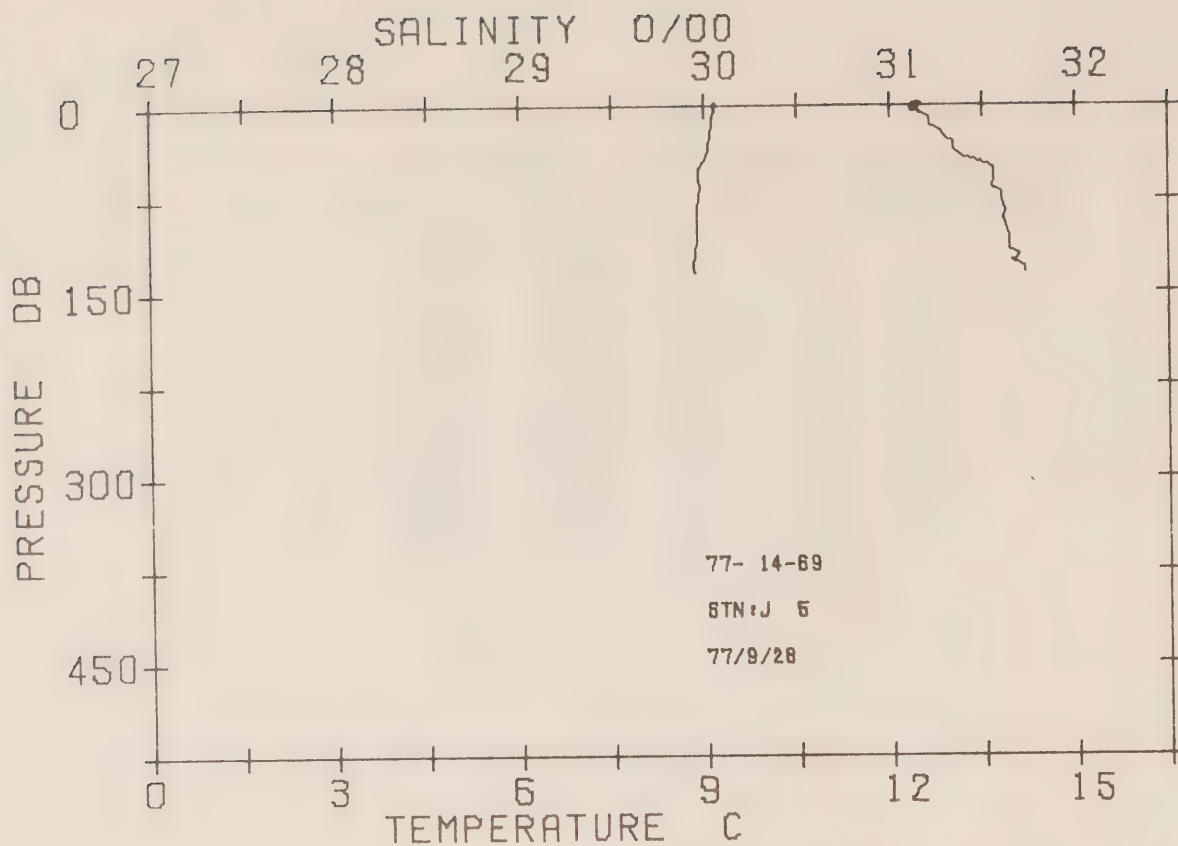


STATION J 6 CRUISE 77-14 CONS # 66
 POSITION 50-26.4N 126- .7W
 DATE 77/ 9/28 TIME 2:39:39 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.24	31.04	24.01	1482.
10	9.18	31.16	24.11	1483.
20	9.14	31.19	24.15	1483.
30	9.14	31.22	24.17	1483.
50	9.13	31.22	24.17	1483.
75	9.09	31.29	24.23	1483.
100	9.10	31.30	24.23	1484.
125	9.10	31.30	24.23	1484.
150	9.08	31.34	24.27	1485.
175	8.90	31.66	24.55	1485.

STATION J 5 CRUISE 77-14 CONS # 68
 POSITION 50-24.5N 125-56.8W
 DATE 77/ 9/28 TIME 3:59:44 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.25	30.21	23.36	1481.
10	9.19	31.12	24.08	1483.
20	9.15	31.19	24.15	1483.
30	9.10	31.26	24.22	1483.
50	9.07	31.31	24.25	1483.

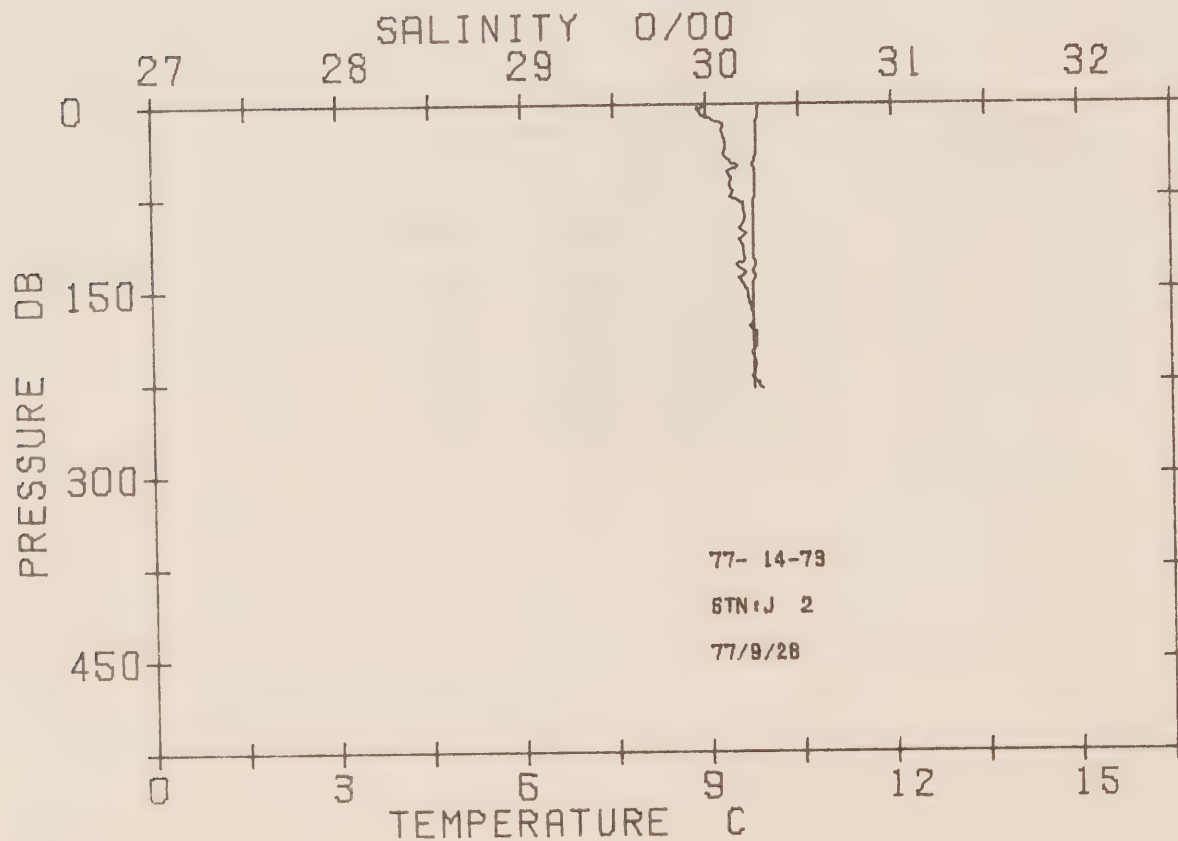
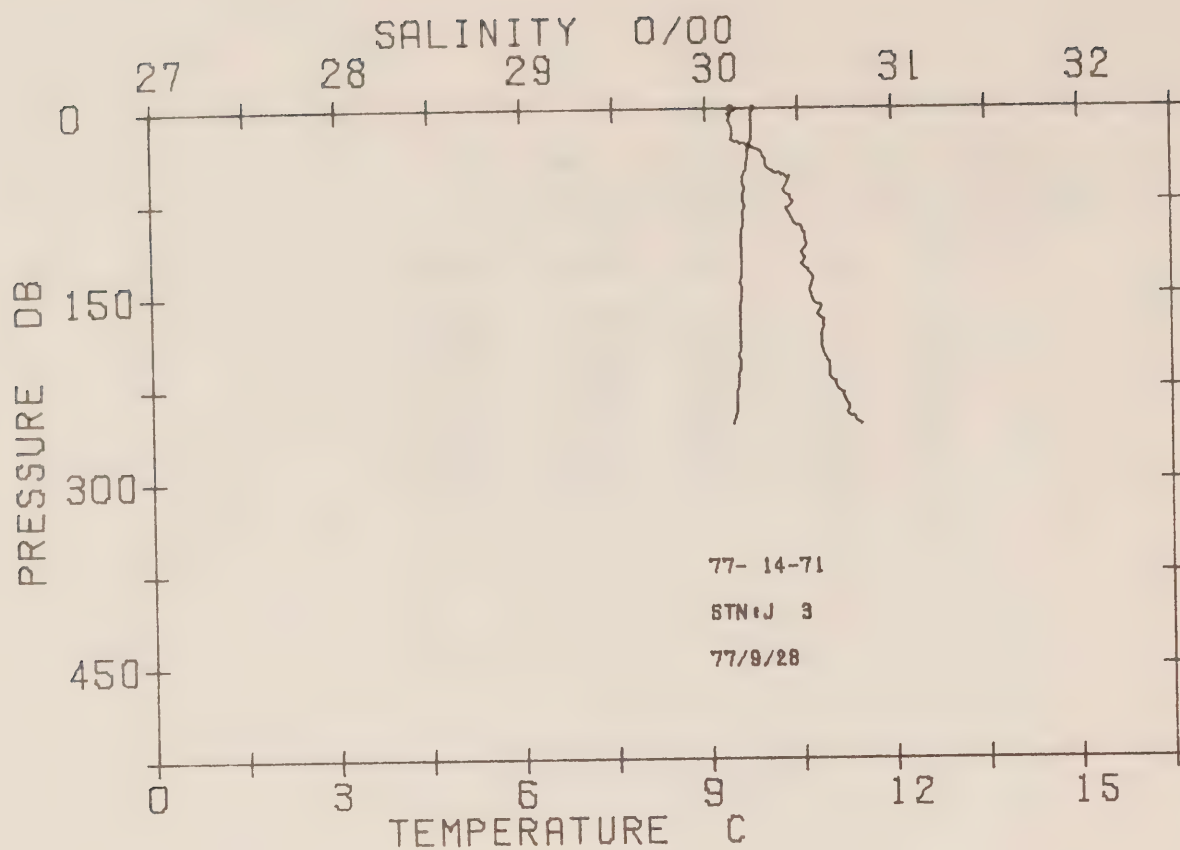


STATION J 5 CRUISE 77-14 CONS # 69
 POSITION 50-24.5N 125-56.8W
 DATE 77/ 9/28 TIME 4:43:22 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.17	31.15	24.11	1482.
10	9.13	31.22	24.17	1482.
20	9.10	31.28	24.22	1483.
30	9.07	31.34	24.27	1483.
50	8.91	31.56	24.47	1483.
75	8.90	31.60	24.50	1483.
100	8.87	31.64	24.54	1483.
125	8.81	31.67	24.57	1484.

STATION J 4A CRUISE 77-14 CONS # 70
 POSITION 50-23.5N 125-53.4W
 DATE 77/ 9/28 TIME 5:39: 1 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.35	30.79	23.80	1483.
10	9.35	30.83	23.83	1483.
20	9.33	30.88	23.87	1483.
30	9.34	30.88	23.87	1483.
50	9.35	30.87	23.86	1484.
75	9.34	30.89	23.88	1484.
100	9.29	30.96	23.94	1484.
125	9.29	30.98	23.95	1485.

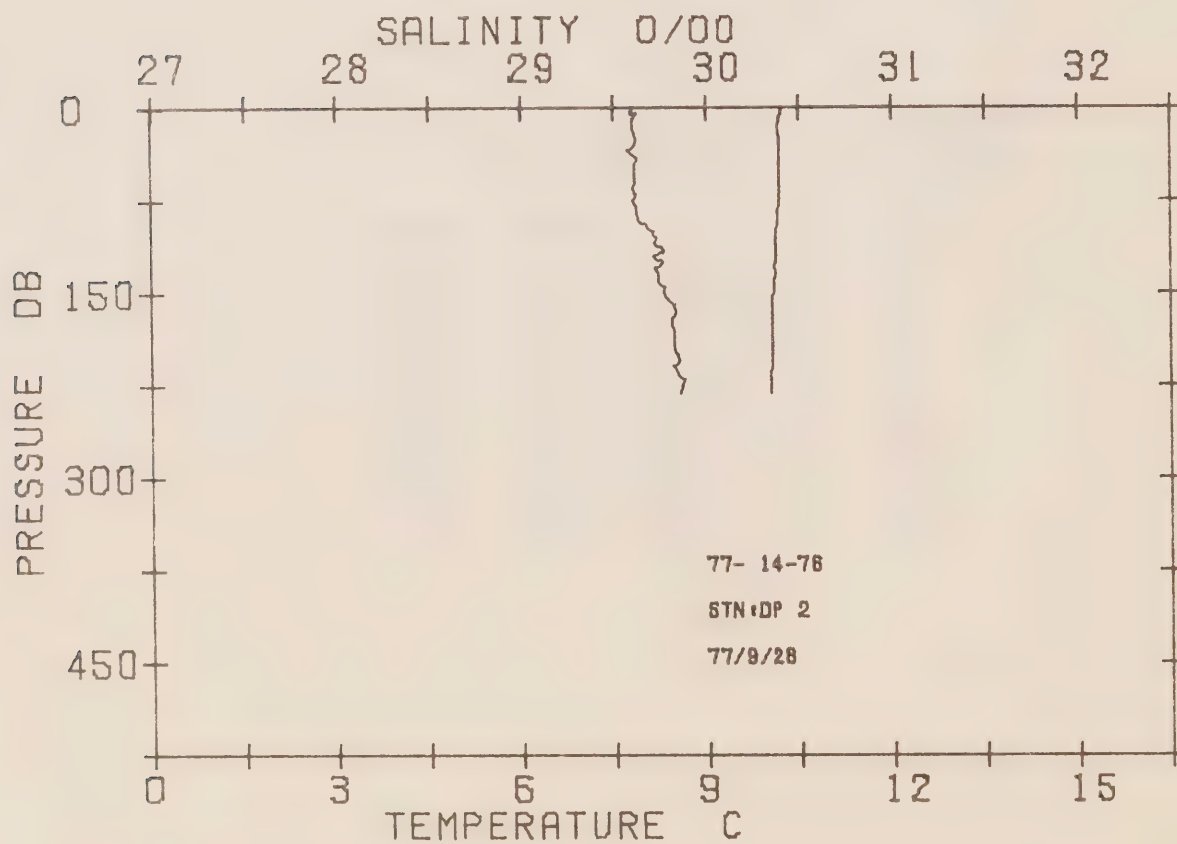
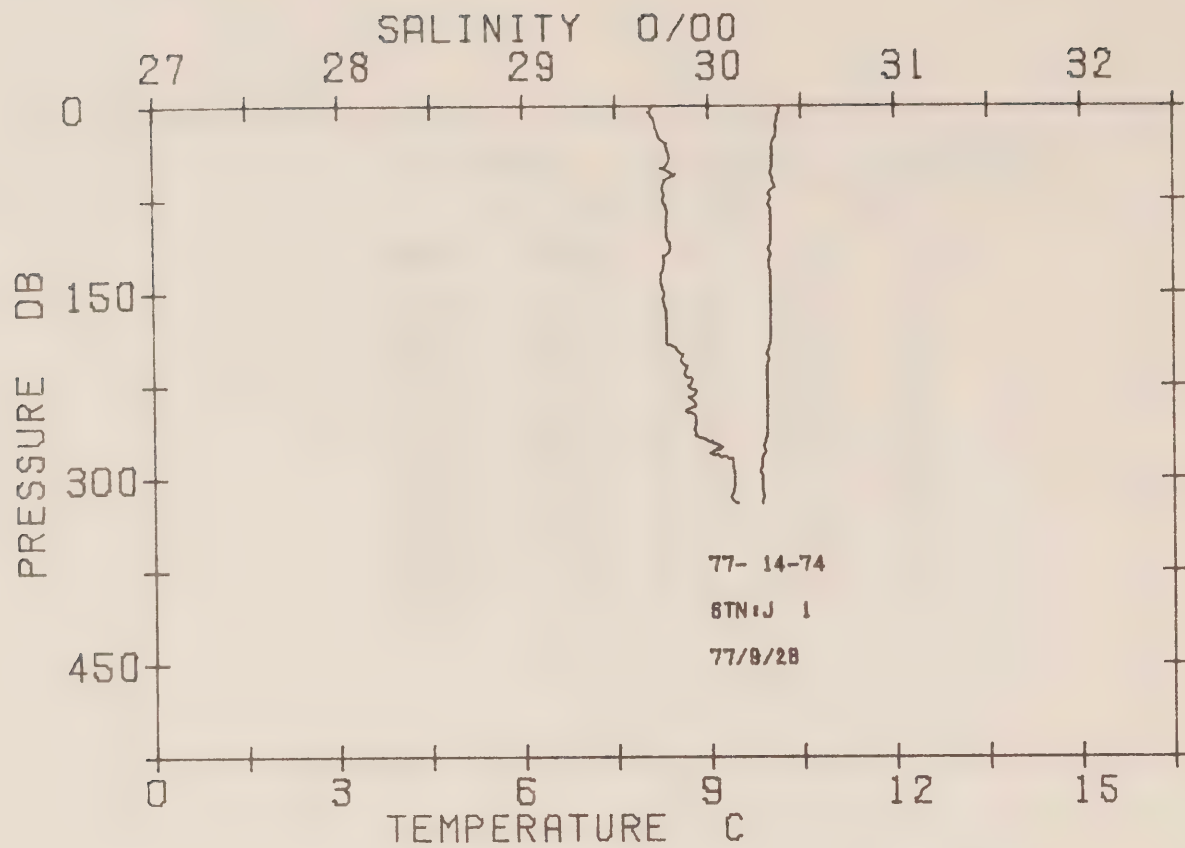


STATION J 3 CRUISE 77-14 CONS # 71
 POSITION 50-22.2N 125-39.0W
 DATE 77/ 9/28 TIME 6:30:49 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.75	30.14	23.23	1483.
10	9.75	30.13	23.23	1483.
20	9.75	30.15	23.24	1484.
30	9.72	30.24	23.31	1484.
50	9.66	30.35	23.41	1484.
75	9.60	30.47	23.51	1484.
100	9.57	30.53	23.56	1485.
125	9.57	30.51	23.55	1485.
150	9.55	30.56	23.59	1485.
175	9.53	30.62	23.64	1486.
200	9.51	30.64	23.66	1486.
225	9.49	30.70	23.71	1487.
250	9.45	30.79	23.78	1487.

STATION J 2 CRUISE 77-14 CONS # 73
 POSITION 50-22.2N 125-33.5W
 DATE 77/ 9/28 TIME 7:57: 9 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	9.83	29.99	23.10	1483.
10	9.85	29.98	23.09	1484.
20	9.80	30.08	23.18	1484.
30	9.80	30.10	23.19	1484.
50	9.76	30.17	23.25	1484.
75	9.78	30.12	23.21	1485.
100	9.76	30.18	23.26	1485.
125	9.75	30.21	23.28	1485.
150	9.75	30.22	23.29	1486.
175	9.74	30.25	23.32	1486.
200	9.75	30.24	23.31	1487.
225	9.74	30.27	23.33	1487.

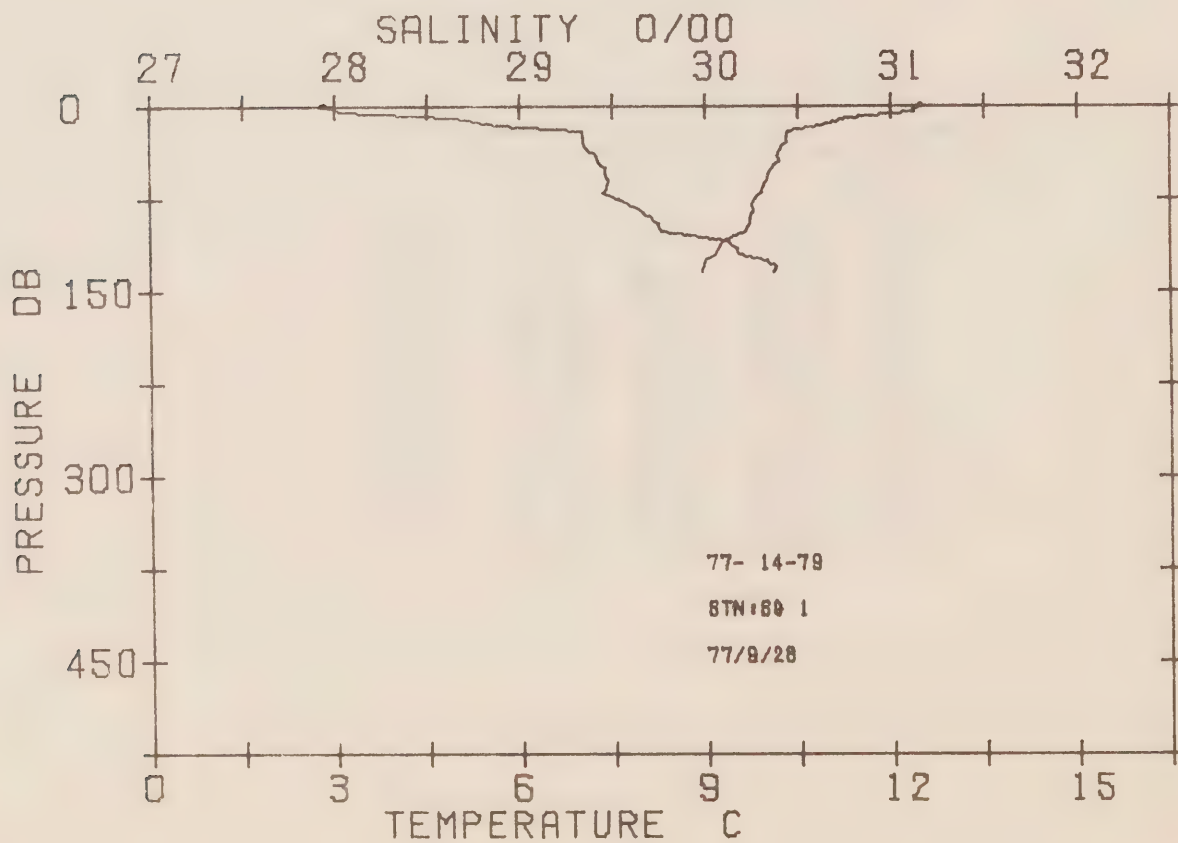
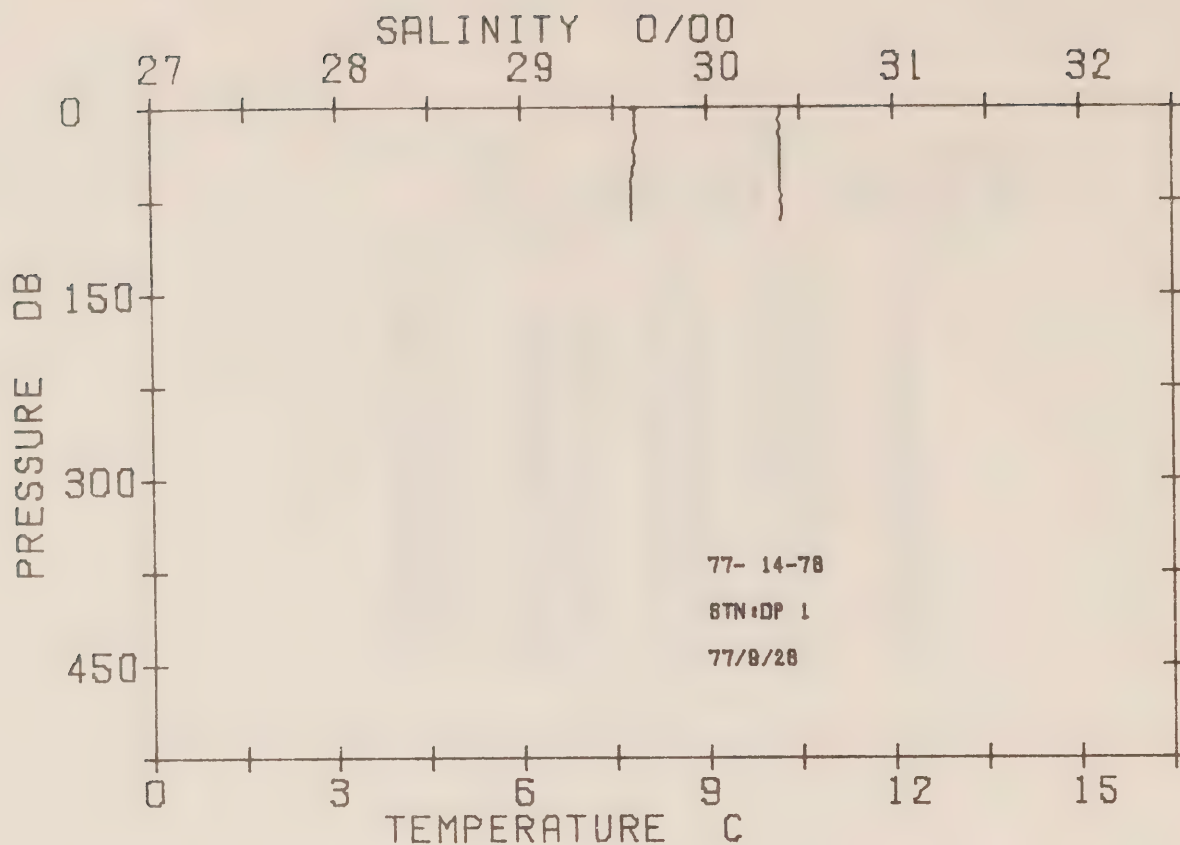


STATION J 1 CRUISE 77-14 CONS # 74
 POSITION 50-20.7N 125-25.5W
 DATE 77/ 9/28 TIME 8:55:25 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	10.15	29.70	22.82	1484.
10	10.11	29.71	22.84	1484.
20	10.09	29.73	22.86	1484.
30	10.03	29.77	22.90	1484.
50	10.04	29.75	22.88	1485.
75	9.99	29.75	22.89	1485.
100	10.00	29.77	22.90	1485.
125	9.98	29.76	22.90	1486.
150	9.99	29.76	22.90	1486.
175	10.01	29.77	22.91	1487.
200	9.95	29.85	22.97	1487.
225	9.94	29.89	23.01	1487.
250	9.93	29.93	23.04	1488.
275	9.87	30.07	23.16	1488.
300	9.83	30.14	23.22	1488.

STATION DP 2 CRUISE 77-14 CONS # 76
 POSITION 50-14.3N 125-23.0W
 DATE 77/ 9/28 TIME 10:10:52 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	10.21	29.60	22.73	1484.
10	10.18	29.60	22.74	1484.
20	10.17	29.61	22.75	1484.
30	10.18	29.61	22.75	1485.
50	10.18	29.61	22.75	1485.
75	10.18	29.60	22.75	1485.
100	10.14	29.71	22.83	1486.
125	10.11	29.76	22.87	1486.
150	10.09	29.77	22.89	1486.
175	10.05	29.81	22.93	1487.
200	10.05	29.84	22.95	1487.
225	10.03	29.86	22.97	1488.

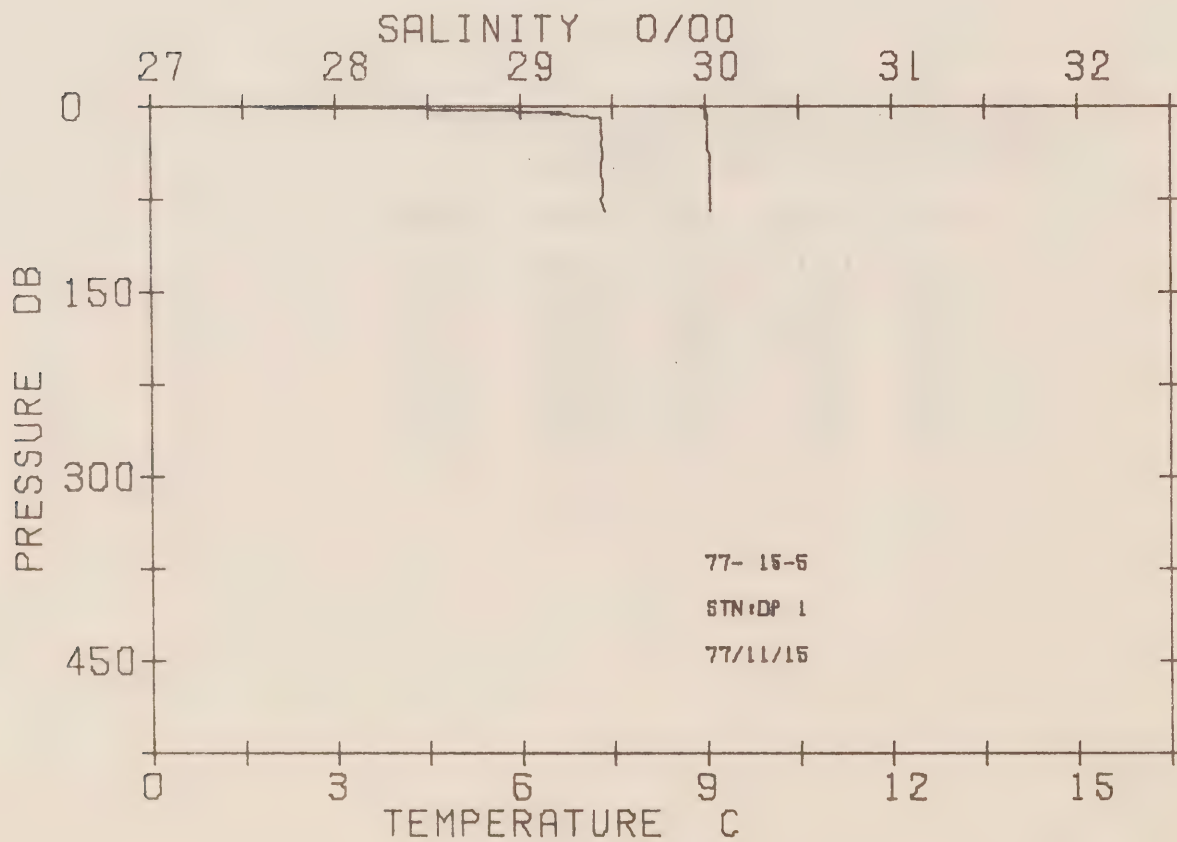
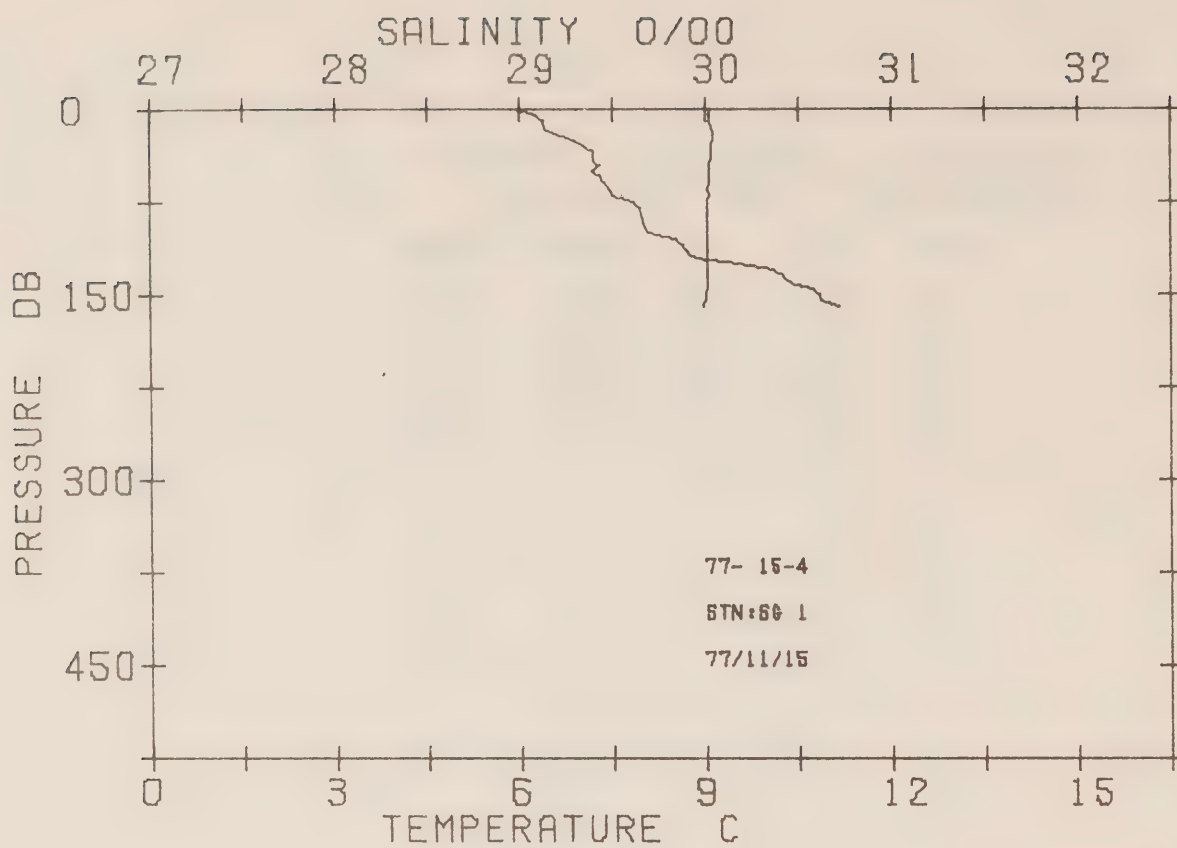


STATION DP 1 CRUISE 77-14 CONS # 78
 POSITION 50- 5.1N 125-16.4W
 DATE 77/ 9/28 TIME 16:52:14 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.18	29.62	22.76	1484.
10	10.17	29.61	22.75	1484.
20	10.17	29.61	22.75	1484.
30	10.18	29.61	22.75	1485.
50	10.19	29.60	22.74	1485.
75	10.20	29.59	22.73	1485.

STATION SG 1 CRUISE 77-14 CONS # 79
 POSITION 49-55.0N 125- 5.5W
 DATE 77/ 9/28 TIME 18: 0:46 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	12.49	27.96	21.08	1490.
10	11.32	28.66	21.82	1487.
20	10.34	29.34	22.51	1485.
30	10.30	29.34	22.52	1485.
50	10.10	29.46	22.65	1484.
75	9.81	29.53	22.75	1484.
100	9.65	29.76	22.95	1484.
125	9.01	30.33	23.50	1483.

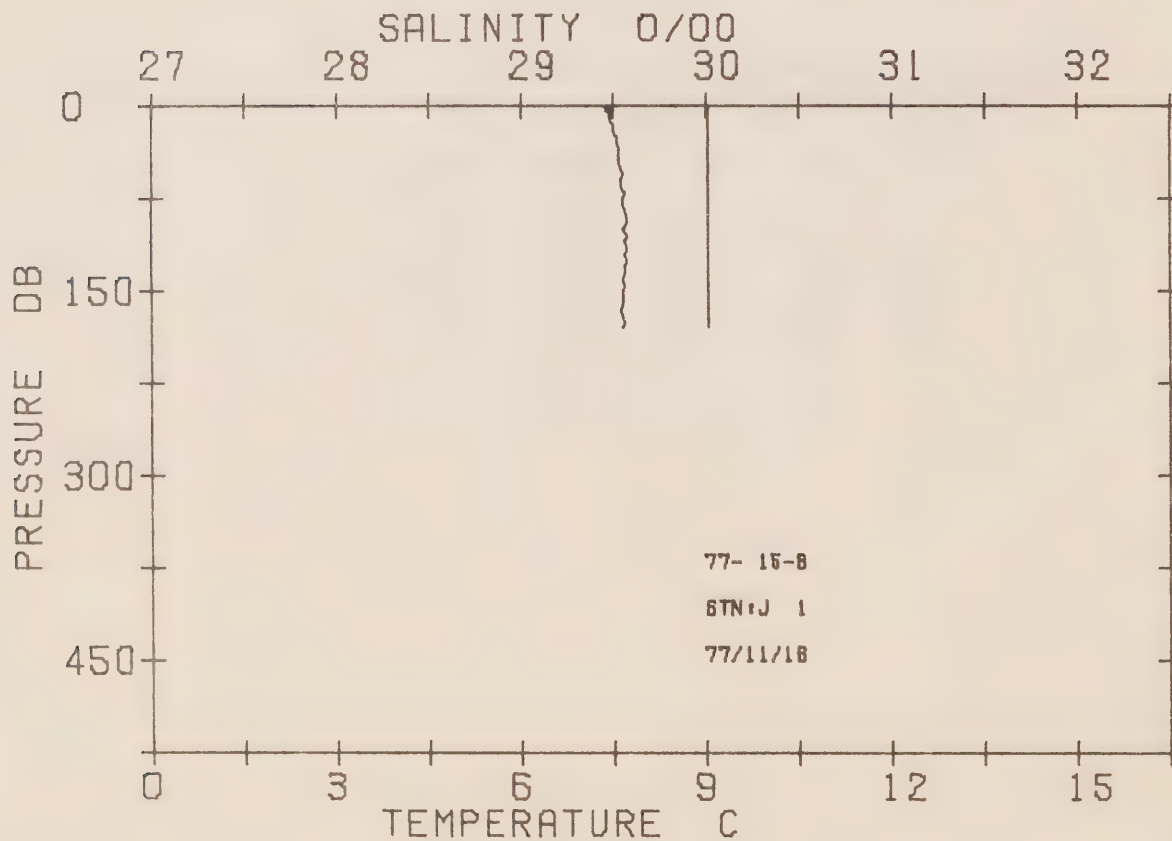
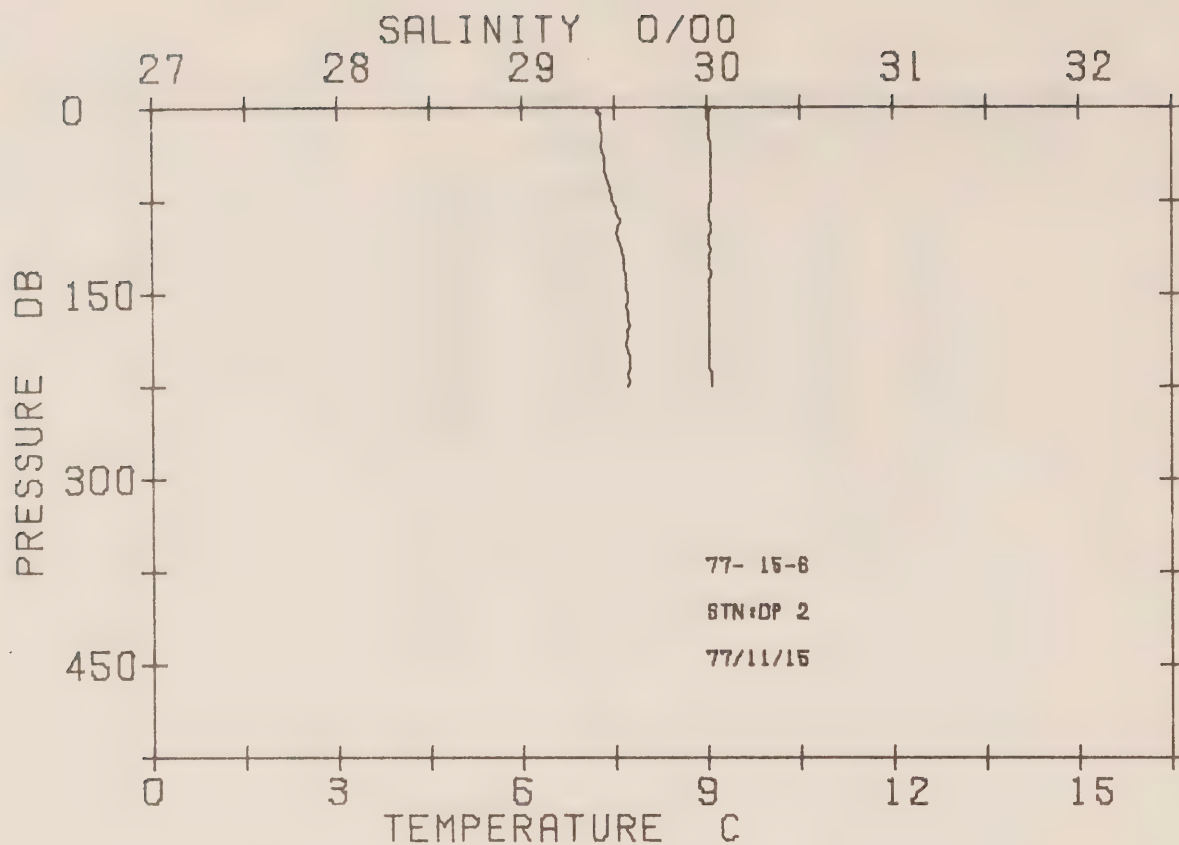


STATION SG 1 CRUISE 77-15 CONS # 4
 POSITION 49-55.0N 125- 5.5W
 DATE 77/11/15 TIME 20: 5: 8 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	9.07	29.03	22.47	1479.
10	9.07	29.12	22.54	1480.
20	9.11	29.20	22.60	1480.
30	9.09	29.35	22.72	1480.
50	9.07	29.40	22.76	1481.
75	9.03	29.61	22.93	1481.
100	9.04	29.70	23.00	1482.
125	9.03	30.19	23.38	1483.
150	9.01	30.61	23.71	1483.

STATION DP 1 CRUISE 77-15 CONS # 5
 POSITION 50- 5.1N 125-16.4W
 DATE 77/11/15 TIME 21:46:14 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.98	27.75	21.49	1477.
10	9.04	29.44	22.80	1480.
20	9.04	29.44	22.80	1480.
30	9.04	29.44	22.80	1480.
50	9.05	29.44	22.79	1481.
75	9.05	29.44	22.80	1481.

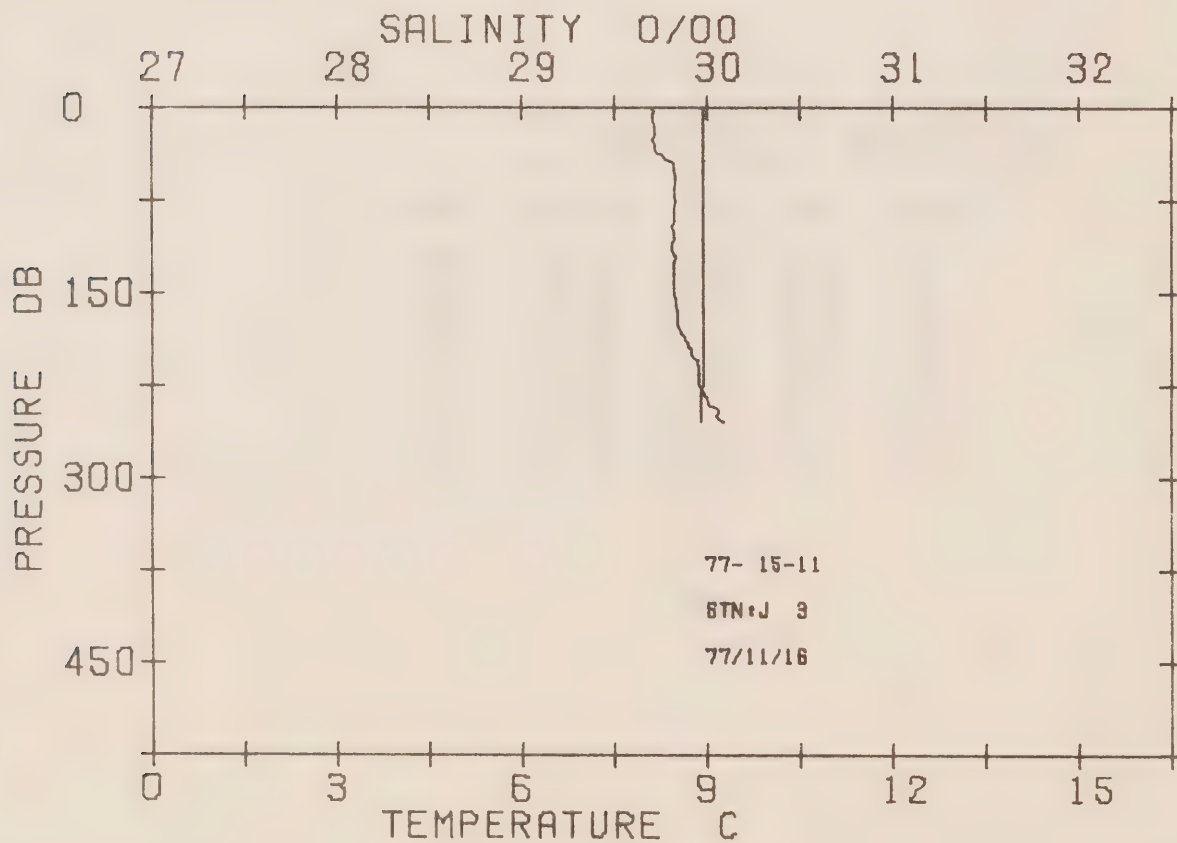
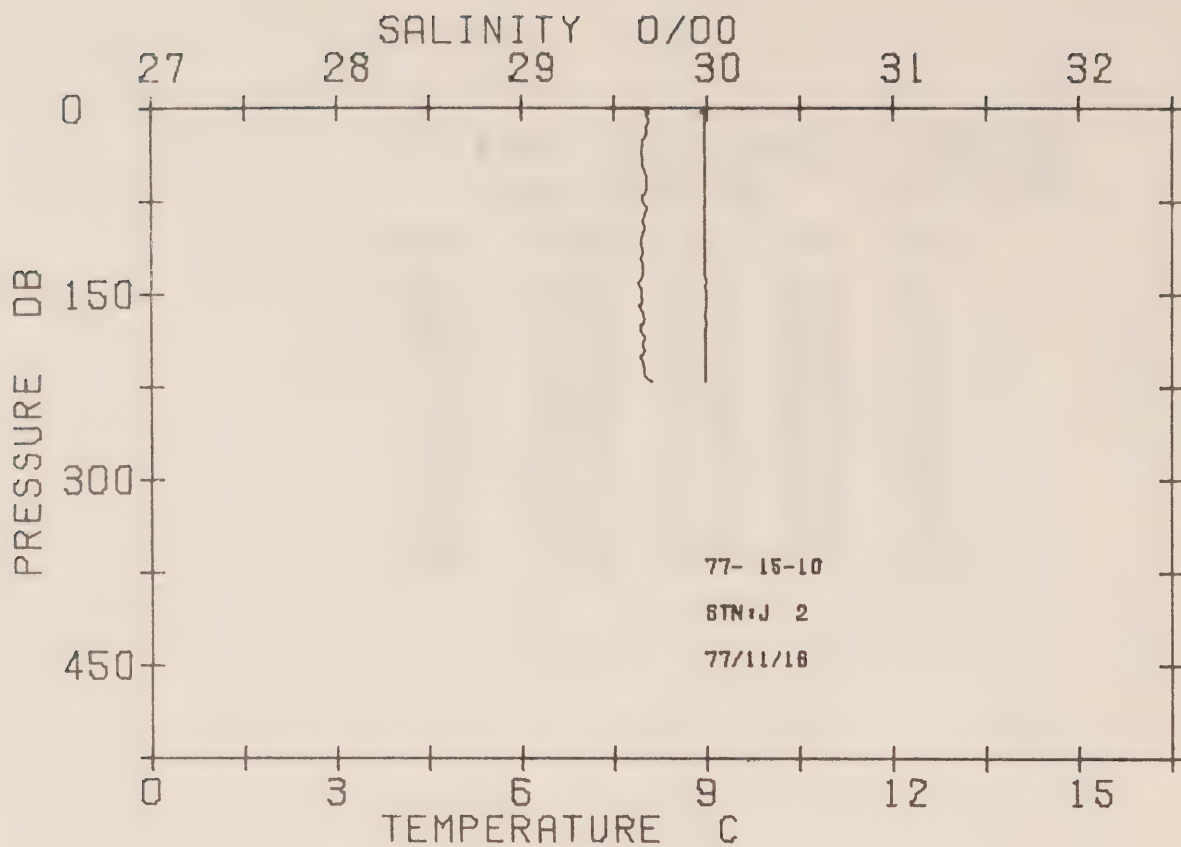


STATION DP 2 CRUISE 77-15 CONS # 6
 POSITION 50-14.7N 125-23.0W
 DATE 77/11/15 TIME 22:42: 7 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	9.13	29.41	22.75	1480.
10	9.04	29.43	22.79	1480.
20	9.04	29.44	22.79	1480.
30	9.05	29.43	22.79	1480.
50	9.05	29.45	22.80	1481.
75	9.05	29.49	22.83	1481.
100	9.05	29.51	22.85	1481.
125	9.04	29.55	22.88	1482.
150	9.04	29.57	22.90	1482.
175	9.04	29.58	22.90	1483.
200	9.04	29.58	22.90	1483.
225	9.05	29.57	22.89	1484.

STATION J 1 CRUISE 77-15 CONS # B
 POSITION 50-20.7N 125-25.5W
 DATE 77/11/16 TIME 0:38:17 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.04	29.47	22.82	1480.
10	9.03	29.48	22.83	1480.
20	9.03	29.50	22.84	1480.
30	9.03	29.52	22.86	1480.
50	9.03	29.54	22.87	1481.
75	9.02	29.55	22.88	1481.
100	9.02	29.55	22.88	1481.
125	9.03	29.57	22.90	1482.
150	9.03	29.55	22.88	1482.
175	9.04	29.56	22.89	1483.

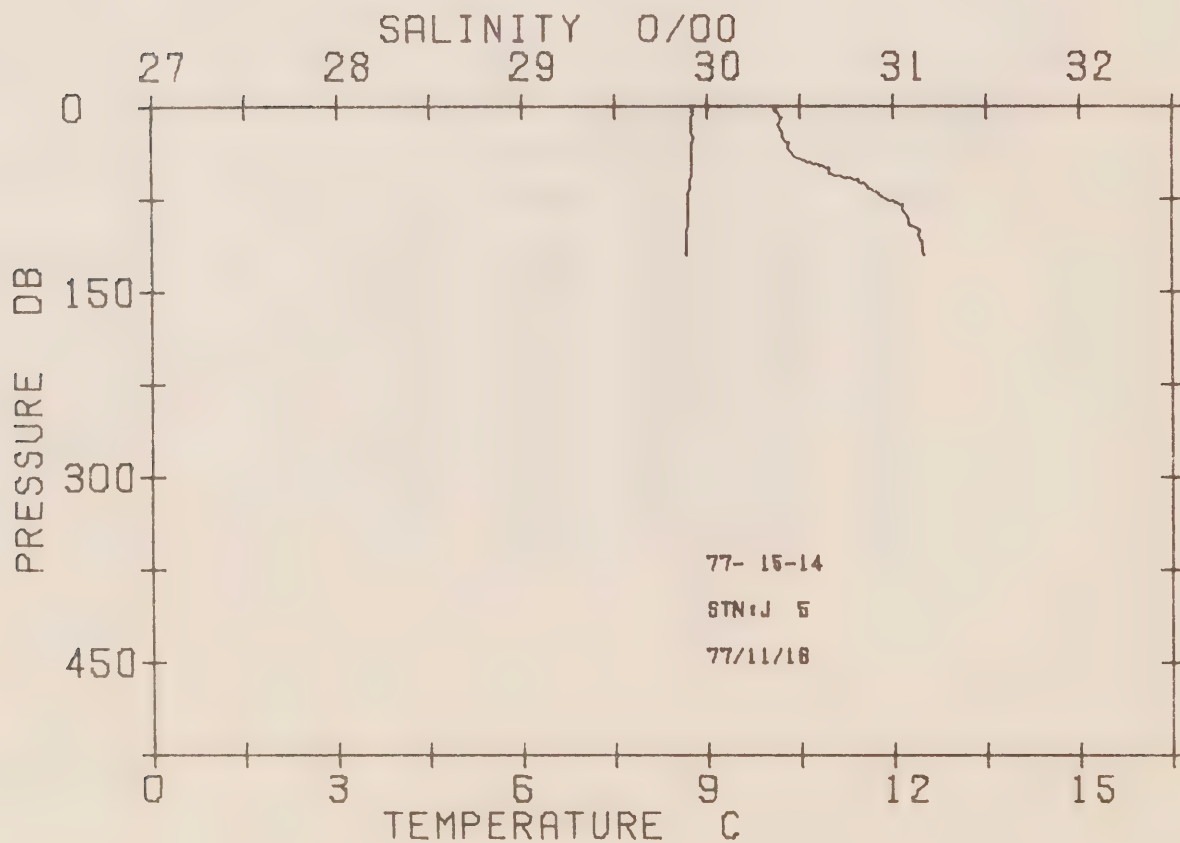
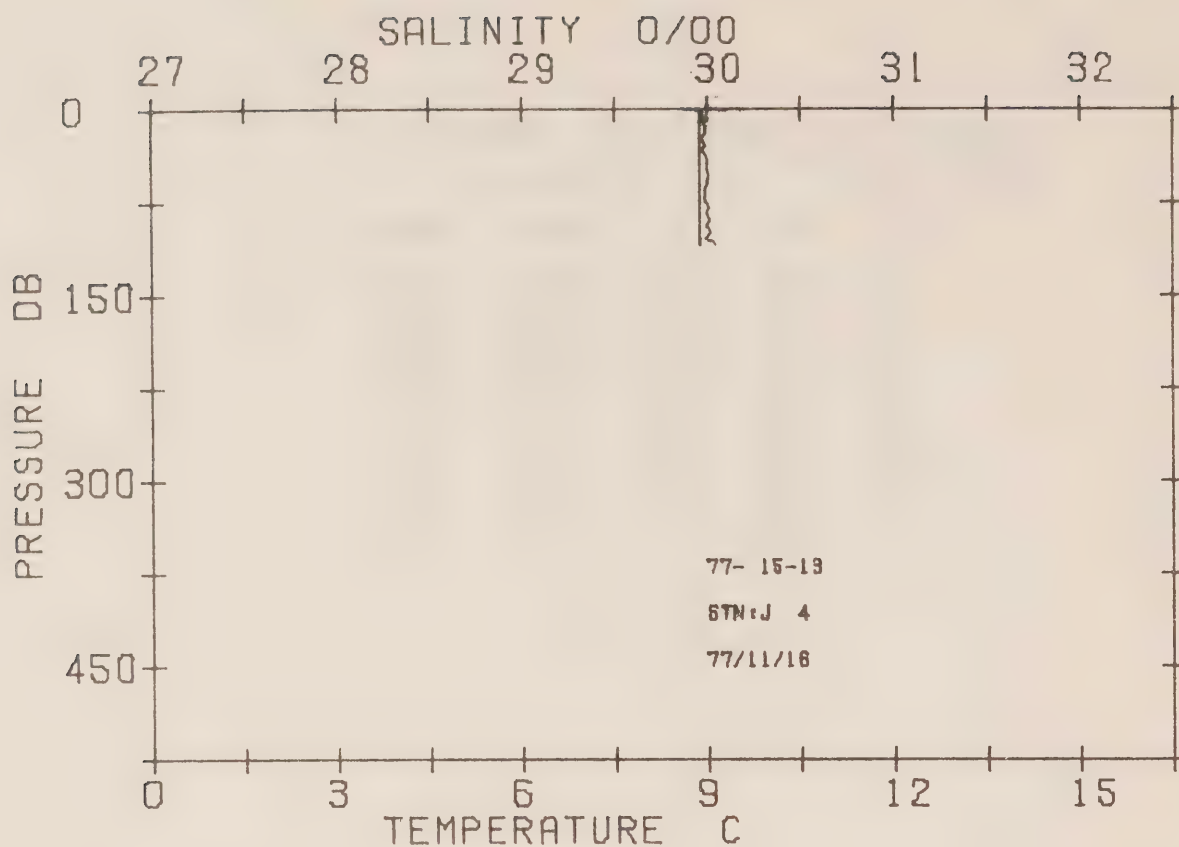


STATION J 2 CRUISE 77-15 CONS # 10
 POSITION 50-22.2N 125-33.5W
 DATE 77/11/16 TIME 2: 8:41 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.96	29.56	22.90	1480.
10	8.96	29.69	23.00	1480.
20	8.96	29.68	22.99	1480.
30	8.96	29.66	22.98	1480.
50	8.96	29.67	22.99	1481.
75	8.97	29.66	22.97	1481.
100	8.98	29.66	22.97	1481.
125	8.98	29.66	22.98	1482.
150	8.99	29.65	22.96	1482.
175	8.99	29.65	22.97	1483.
200	8.98	29.65	22.97	1483.

STATION J 3 CRUISE 77-15 CONS # 11
 POSITION 50-22.2N 125-39.0W
 DATE 77/11/16 TIME 2:50:10 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	8.94	29.70	23.01	1480.
10	8.94	29.71	23.02	1480.
20	8.95	29.72	23.03	1480.
30	8.95	29.72	23.03	1480.
50	8.93	29.82	23.11	1481.
75	8.93	29.83	23.11	1481.
100	8.94	29.82	23.10	1481.
125	8.94	29.82	23.10	1482.
150	8.95	29.82	23.11	1482.
175	8.95	29.84	23.12	1483.
200	8.93	29.92	23.18	1483.
225	8.93	29.96	23.21	1484.
250	8.90	30.05	23.29	1484.

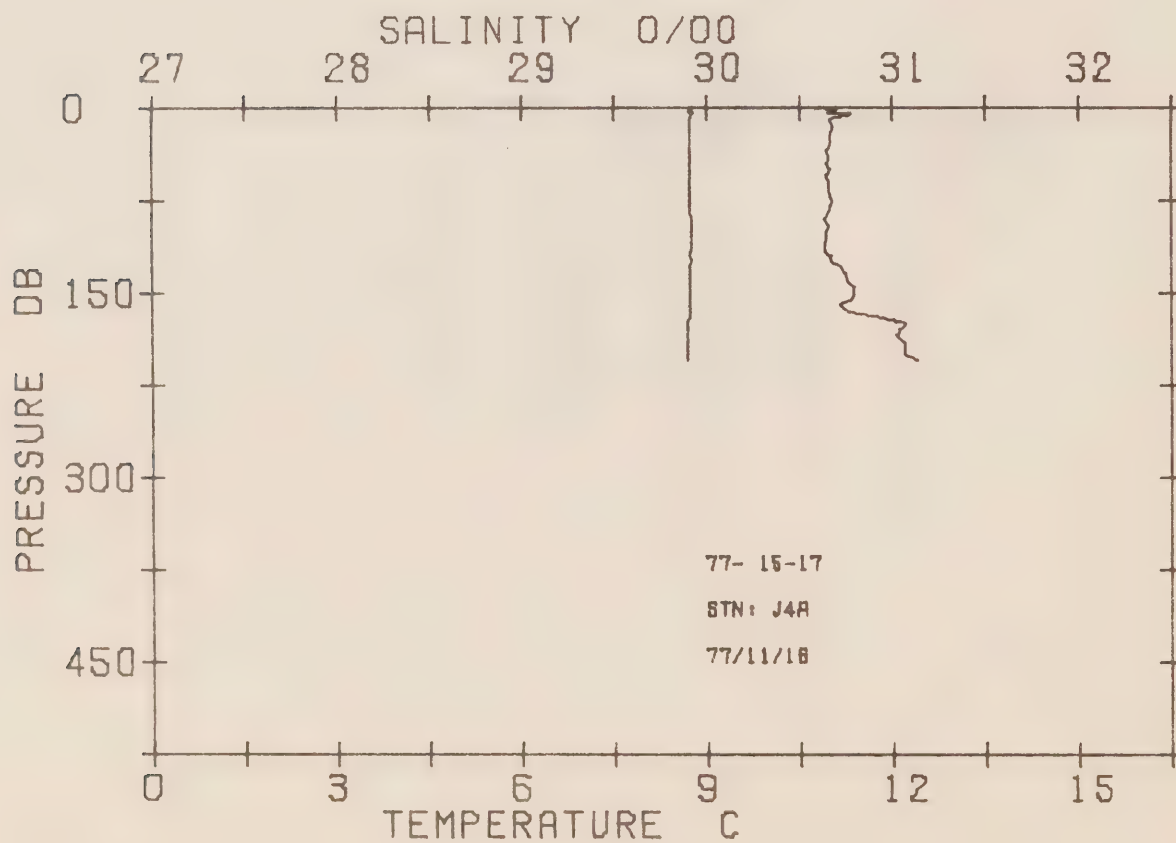
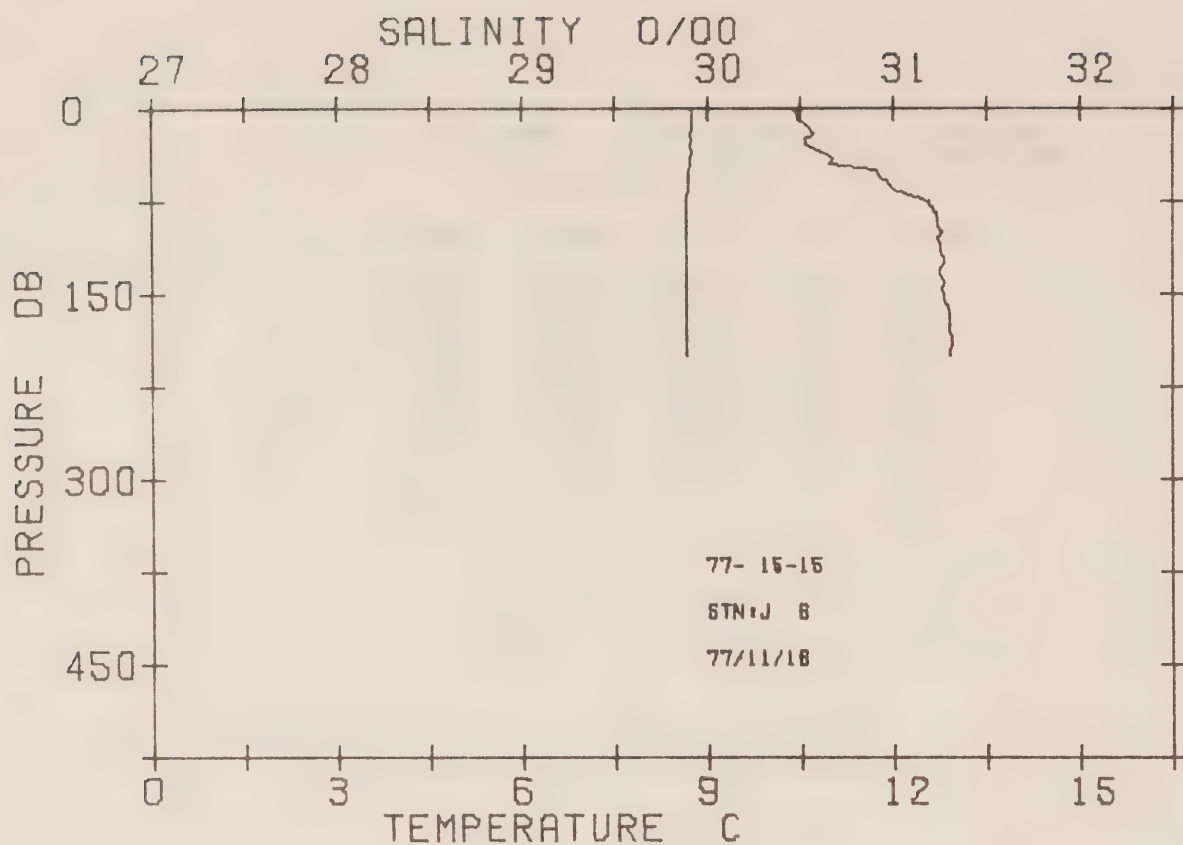


STATION J 4 CRUISE 77-15 CONS # 13
 POSITION 50-22.7N 125-47.0W
 DATE 77/11/16 TIME 4:19:19 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.89	30.03	23.28	1480.
10	8.87	29.98	23.24	1480.
20	8.87	29.99	23.25	1480.
30	8.88	29.99	23.24	1480.
50	8.88	30.00	23.25	1481.
75	8.89	29.99	23.25	1481.
100	8.88	30.02	23.27	1481.

STATION J 5 CRUISE 77-15 CONS # 14
 POSITION 50-24.5N 125-56.8W
 DATE 77/11/16 TIME 5:31:17 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.75	30.37	23.56	1480.
10	8.76	30.41	23.59	1480.
20	8.76	30.41	23.59	1480.
30	8.76	30.44	23.62	1480.
50	8.74	30.66	23.79	1481.
75	8.69	30.96	24.03	1482.
100	8.67	31.15	24.18	1482.

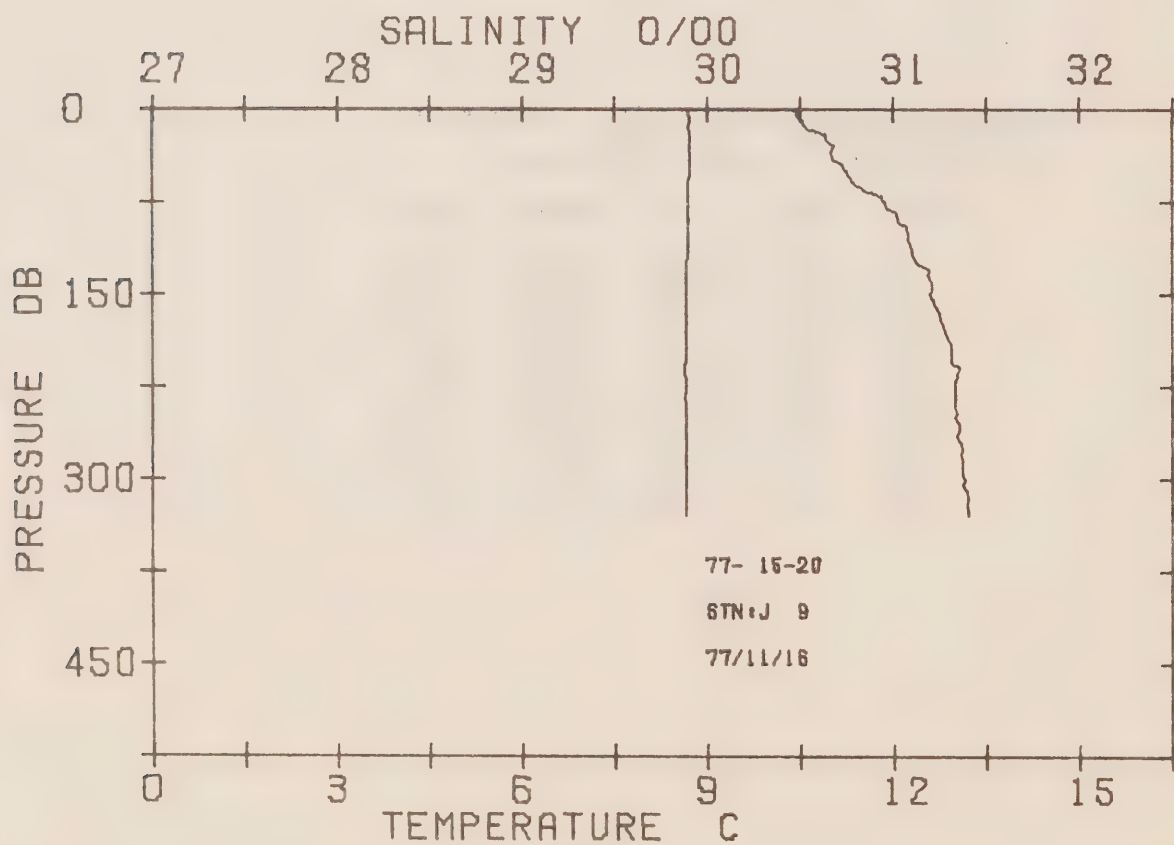
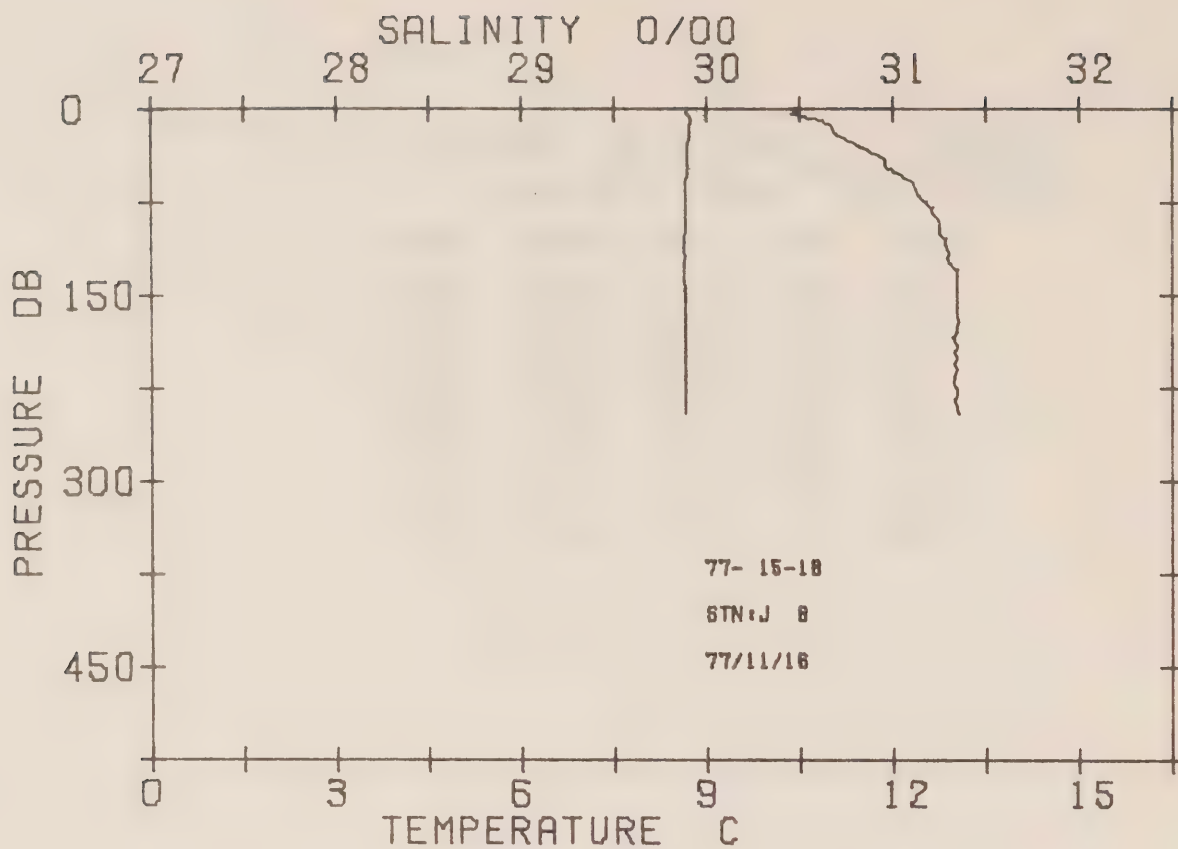


STATION J 6 CRUISE 77-15 CONS # 15
 POSITION 50-26.4N 126- .7W
 DATE 77/11/16 TIME 6: 8:31 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.76	30.41	23.59	1480.
10	8.74	30.49	23.66	1480.
20	8.73	30.57	23.72	1480.
30	8.73	30.53	23.69	1480.
50	8.69	30.92	24.00	1481.
75	8.66	31.19	24.21	1482.
100	8.65	31.26	24.27	1482.
125	8.66	31.27	24.28	1483.
150	8.66	31.27	24.28	1483.
175	8.66	31.30	24.30	1483.
200	8.66	31.30	24.31	1484.

STATION J4A CRUISE 77-15 CONS # 17
 POSITION 50-23.5N 125-53.4W
 DATE 77/11/16 TIME 7:18:10 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.73	30.37	23.57	1480.
10	8.73	30.67	23.80	1480.
20	8.72	30.67	23.80	1480.
30	8.72	30.67	23.80	1481.
50	8.73	30.67	23.80	1481.
75	8.73	30.68	23.81	1481.
100	8.74	30.65	23.78	1482.
125	8.74	30.68	23.81	1482.
150	8.72	30.79	23.90	1483.
175	8.69	31.07	24.12	1483.
200	8.70	31.06	24.11	1484.

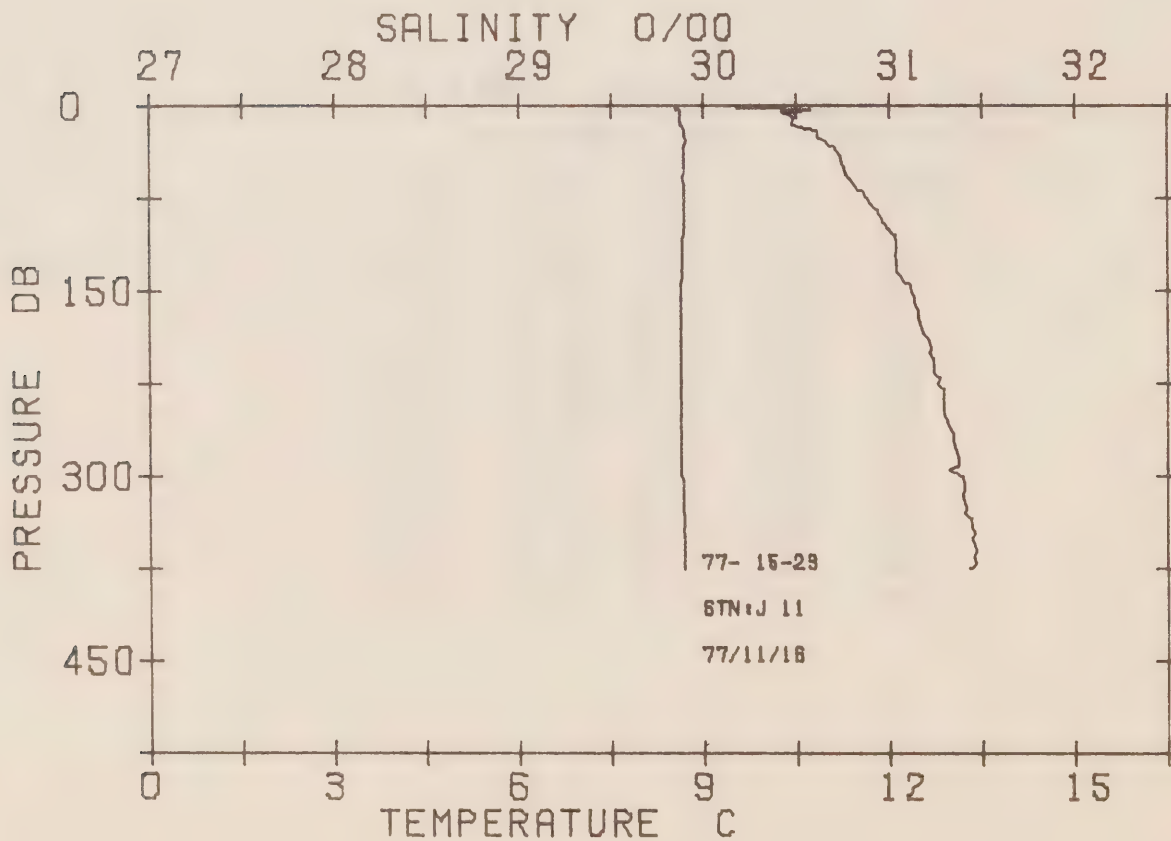
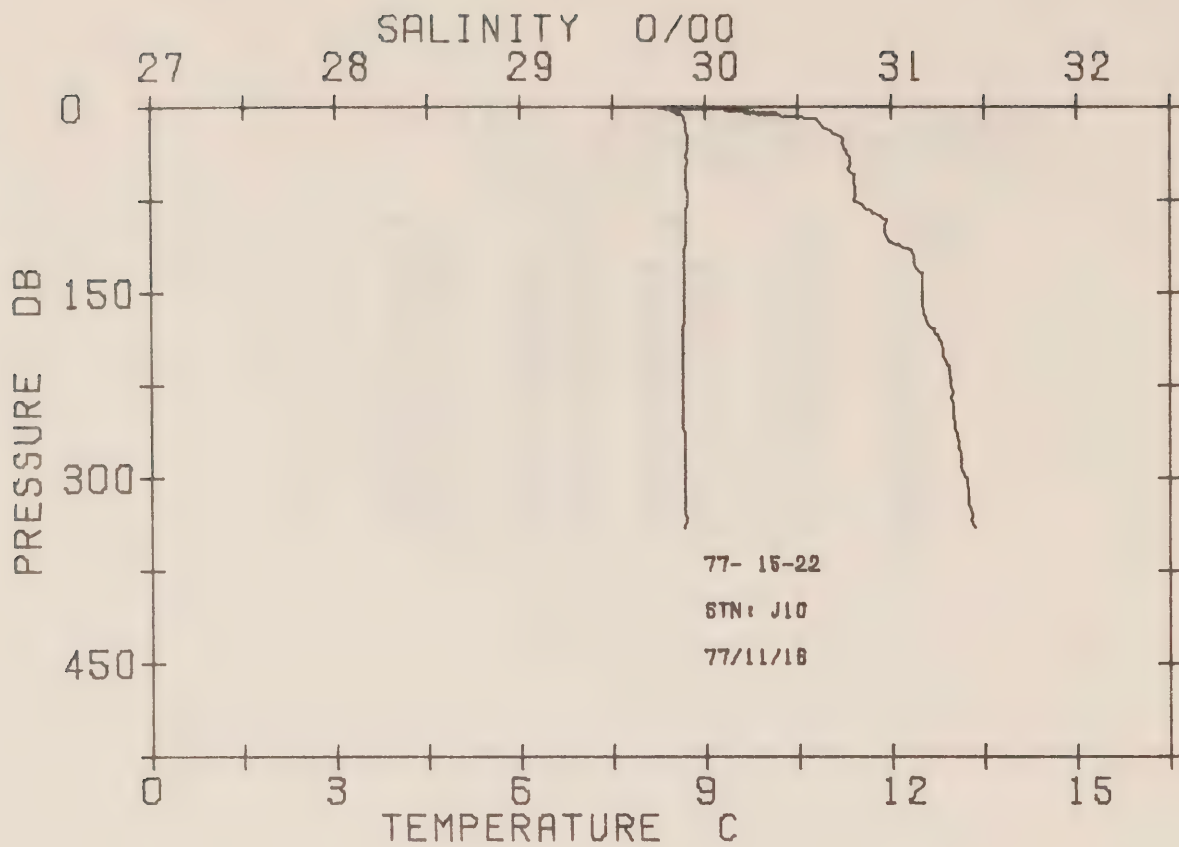


STATION J 8 CRUISE 77-15 CONS # 18
 POSITION 50-27.5N 126- 3.4W
 DATE 77/11/16 TIME 8:12:32 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.67	30.48	23.66	1480.
10	8.74	30.63	23.76	1480.
20	8.72	30.70	23.83	1480.
30	8.70	30.82	23.92	1481.
50	8.69	31.00	24.06	1481.
75	8.66	31.18	24.21	1482.
100	8.65	31.25	24.27	1482.
125	8.64	31.31	24.31	1483.
150	8.65	31.34	24.34	1483.
175	8.65	31.34	24.34	1483.
200	8.65	31.34	24.33	1484.
225	8.66	31.34	24.33	1484.

STATION J 9 CRUISE 77-15 CONS # 20
 POSITION 50-28.5N 126-10.7W
 DATE 77/11/16 TIME 9:39:28 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.68	30.46	23.64	1480.
10	8.71	30.51	23.68	1480.
20	8.71	30.64	23.78	1480.
30	8.72	30.68	23.81	1481.
50	8.72	30.75	23.86	1481.
75	8.69	30.96	24.03	1482.
100	8.68	31.08	24.13	1482.
125	8.67	31.14	24.17	1483.
150	8.65	31.20	24.23	1483.
175	8.65	31.27	24.28	1483.
200	8.65	31.31	24.31	1484.
225	8.65	31.33	24.33	1484.
250	8.65	31.33	24.33	1485.
275	8.65	31.37	24.36	1485.
300	8.66	31.39	24.37	1486.
325	8.66	31.41	24.39	1486.

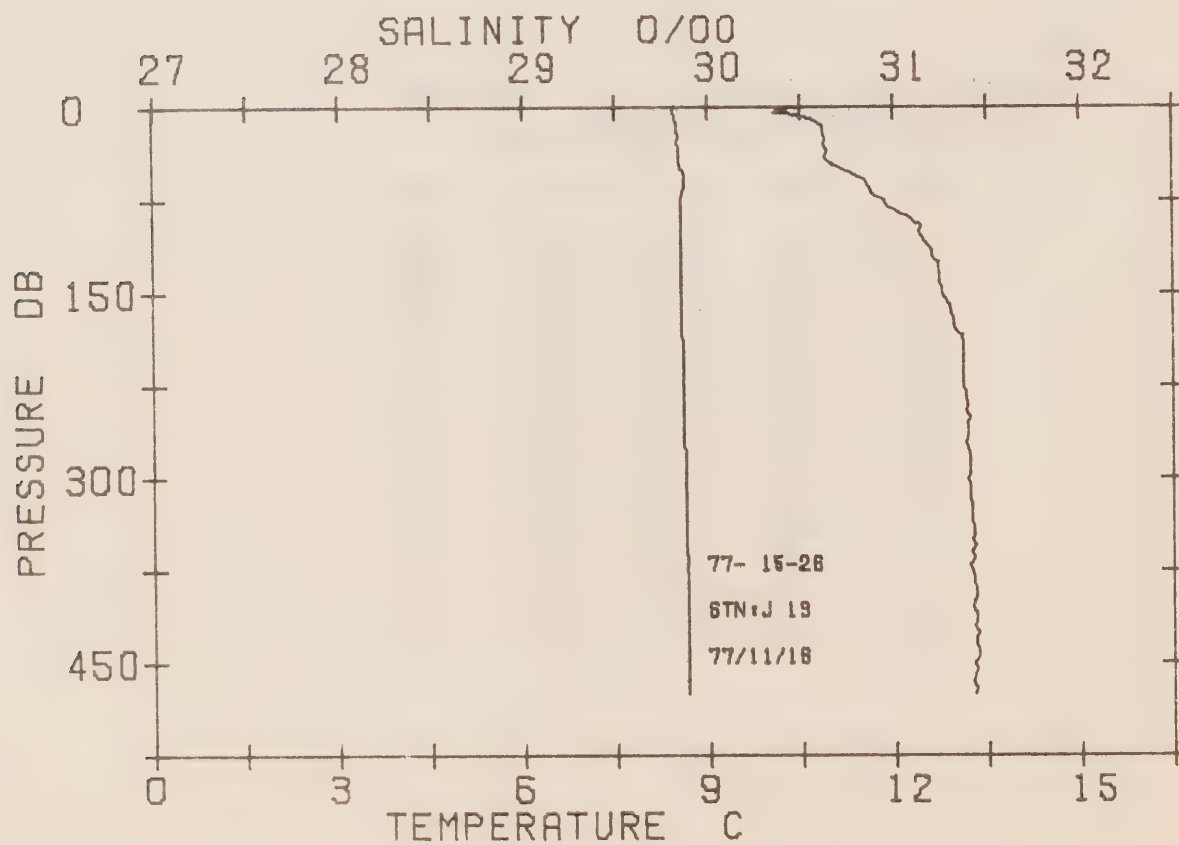
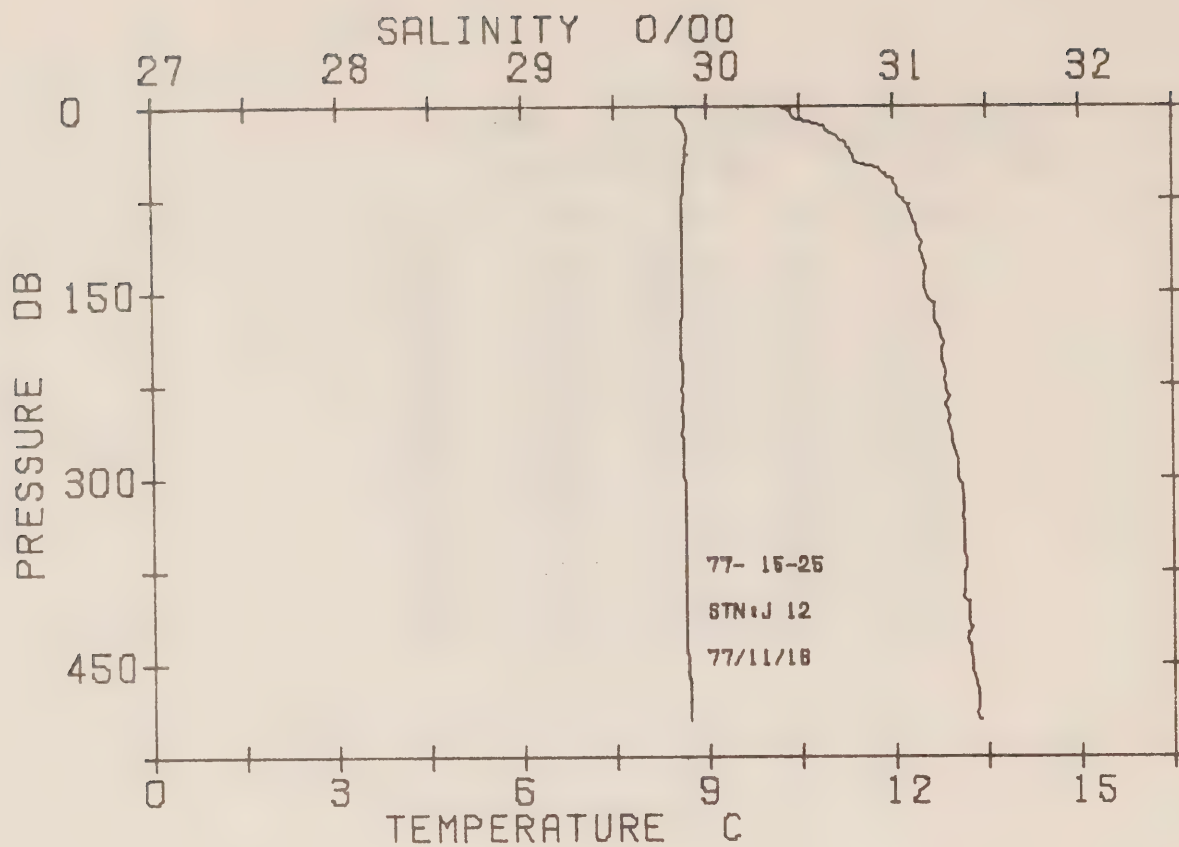


STATION J10 CRUISE 77-15 CONS # 22
 POSITION 50-29.7N 126-18.7W
 DATE 77/11/16 TIME 11:29:38 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.40	29.40	22.86	1477.
10	8.67	30.60	23.75	1480.
20	8.69	30.69	23.82	1480.
30	8.71	30.74	23.86	1481.
50	8.70	30.77	23.88	1481.
75	8.71	30.80	23.91	1481.
100	8.70	30.97	24.04	1482.
125	8.66	31.12	24.16	1482.
150	8.65	31.17	24.20	1483.
175	8.65	31.20	24.23	1483.
200	8.64	31.28	24.29	1484.
225	8.64	31.32	24.32	1484.
250	8.64	31.33	24.33	1485.
275	8.66	31.36	24.35	1485.
300	8.67	31.41	24.39	1486.
325	8.67	31.43	24.41	1486.

STATION J 11 CRUISE 77-15 CONS # 23
 POSITION 50-30.0N 126-30.0W
 DATE 77/11/16 TIME 12:21:56 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.56	30.19	23.45	1479.
10	8.63	30.49	23.67	1480.
20	8.68	30.61	23.76	1480.
30	8.71	30.67	23.81	1481.
50	8.68	30.76	23.88	1481.
75	8.70	30.89	23.98	1481.
100	8.68	31.00	24.07	1482.
125	8.67	31.04	24.10	1482.
150	8.63	31.13	24.17	1483.
175	8.62	31.17	24.21	1483.
200	8.62	31.22	24.25	1484.
225	8.61	31.26	24.28	1484.
250	8.61	31.30	24.31	1485.
275	8.62	31.35	24.35	1485.
300	8.64	31.40	24.38	1486.
325	8.67	31.42	24.39	1486.
350	8.68	31.45	24.42	1487.
375	8.69	31.44	24.41	1487.

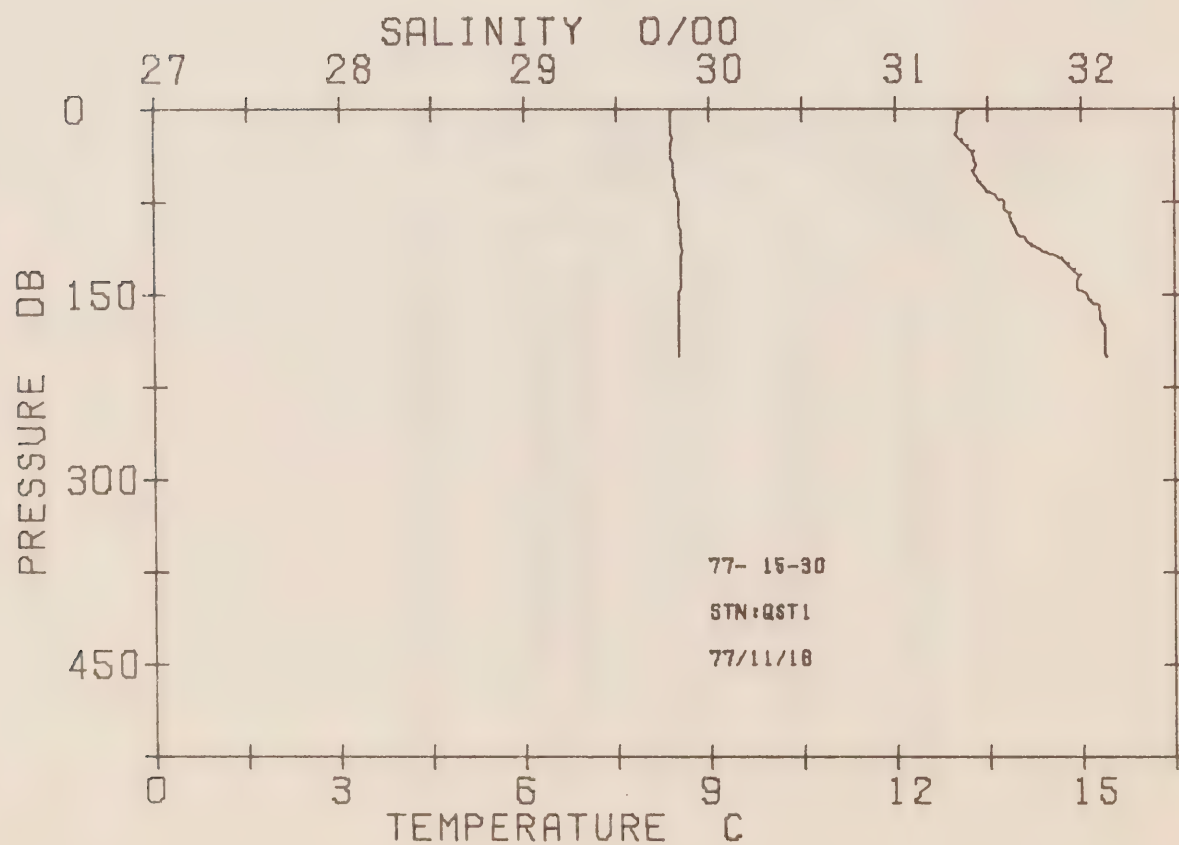
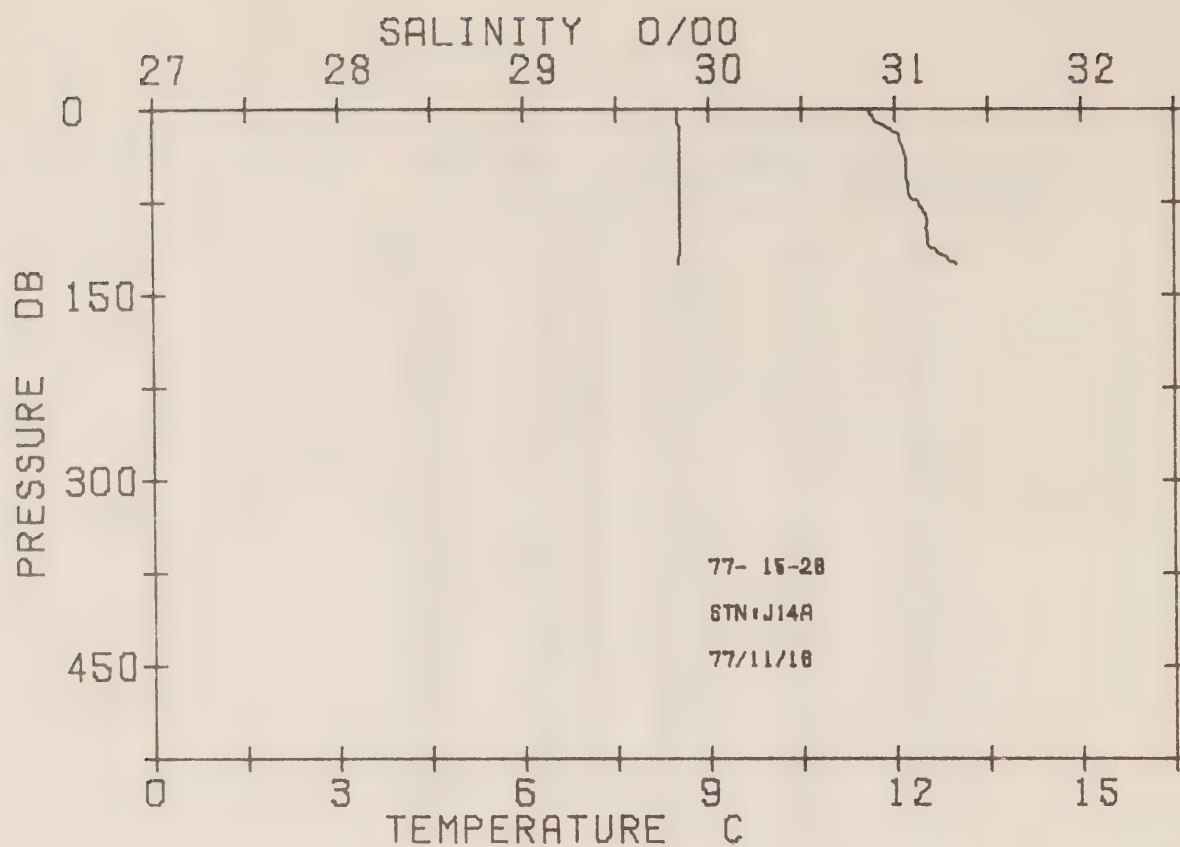


STATION J 12 CRUISE 77-15 CONS # 25
 POSITION 50-31.7N 126-41.0W
 DATE 77/11/16 TIME 14: 2:54 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.53	30.45	23.66	1479.
10	8.54	30.47	23.67	1479.
20	8.66	30.66	23.80	1480.
30	8.68	30.75	23.87	1480.
50	8.63	30.93	24.02	1481.
75	8.60	31.05	24.12	1481.
100	8.59	31.13	24.18	1482.
125	8.59	31.17	24.21	1482.
150	8.59	31.18	24.22	1483.
175	8.57	31.23	24.26	1483.
200	8.57	31.26	24.28	1483.
225	8.58	31.28	24.30	1484.
250	8.58	31.30	24.31	1484.
275	8.58	31.32	24.33	1485.
300	8.60	31.34	24.34	1485.
325	8.62	31.38	24.37	1486.
350	8.62	31.38	24.37	1486.
375	8.63	31.38	24.37	1487.
400	8.64	31.40	24.38	1487.
425	8.63	31.40	24.39	1488.
450	8.66	31.42	24.40	1488.
475	8.68	31.45	24.41	1489.

STATION J 13 CRUISE 77-15 CONS # 26
 POSITION 50-33.3N 126-47.0W
 DATE 77/11/16 TIME 14:48: 0 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.47	30.49	23.70	1479.
10	8.48	30.56	23.75	1479.
20	8.51	30.63	23.80	1480.
30	8.51	30.63	23.80	1480.
50	8.57	30.73	23.87	1480.
75	8.55	30.96	24.05	1481.
100	8.56	31.14	24.20	1482.
125	8.55	31.24	24.27	1482.
150	8.55	31.26	24.29	1483.
175	8.56	31.32	24.33	1483.
200	8.58	31.38	24.38	1484.
225	8.59	31.38	24.38	1484.
250	8.60	31.41	24.40	1485.
275	8.60	31.40	24.39	1485.
300	8.62	31.40	24.39	1485.
325	8.62	31.42	24.40	1486.
350	8.63	31.42	24.40	1486.
375	8.64	31.42	24.40	1487.
400	8.66	31.43	24.41	1487.
425	8.66	31.45	24.42	1488.
450	8.66	31.43	24.41	1488.
475	8.67	31.43	24.40	1489.

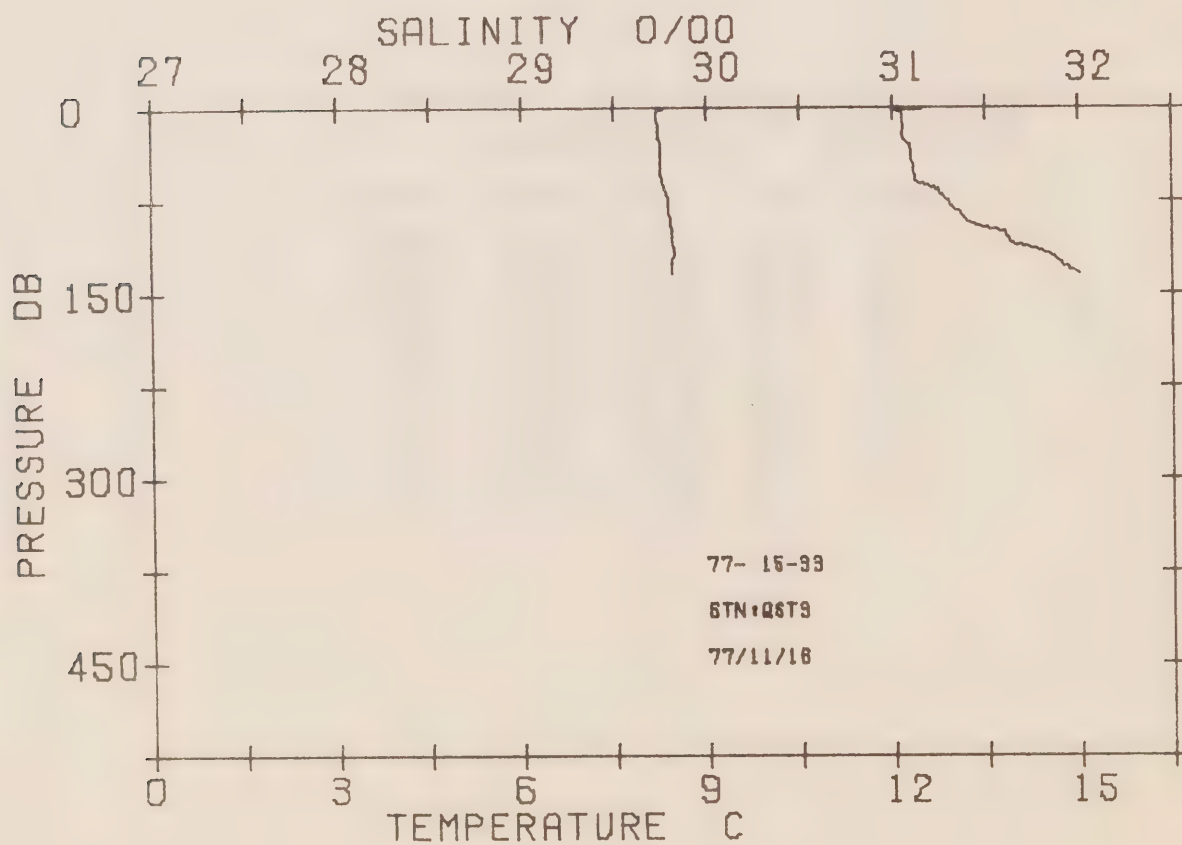
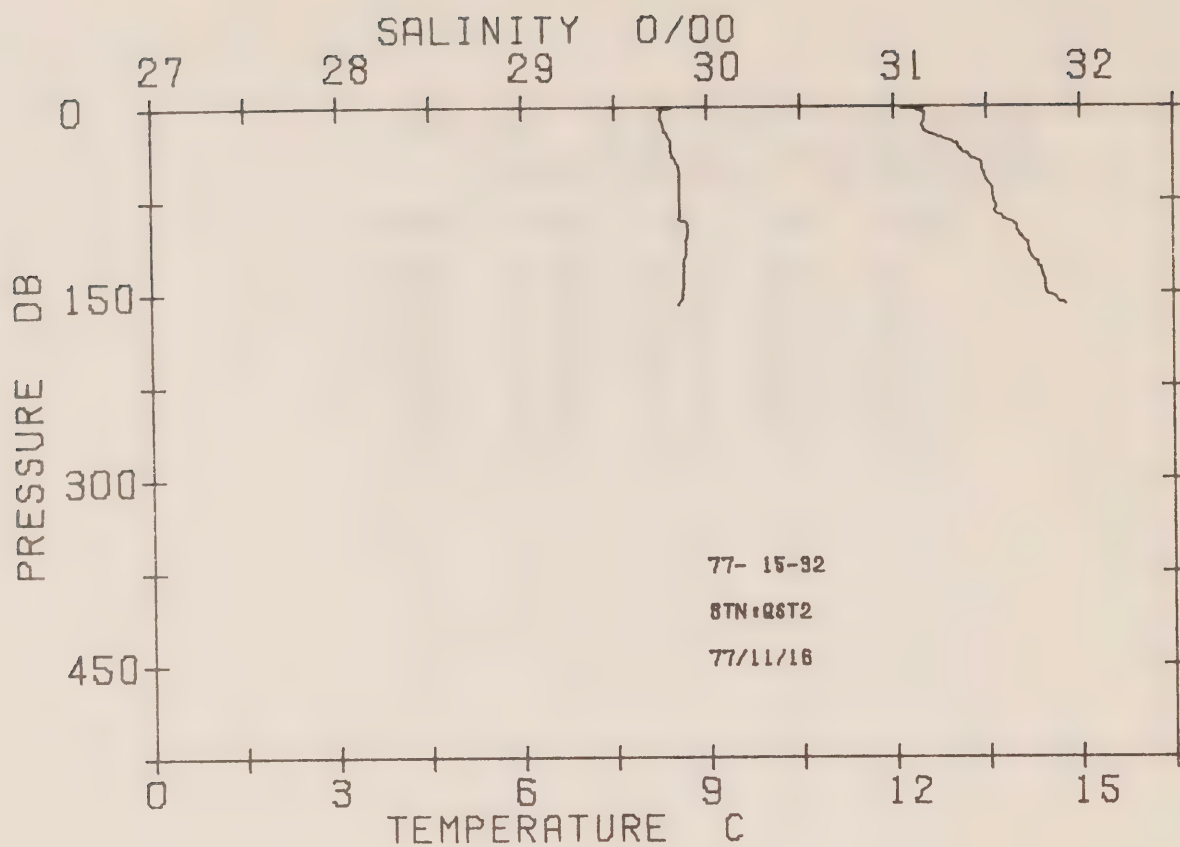


STATION J14A CRUISE 77-15 CONS # 28
 POSITION 50-36.4N 126-50.0W
 DATE 77/11/16 TIME 16: 9:35 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.50	30.83	23.96	1479.
10	8.51	30.90	24.01	1480.
20	8.52	31.02	24.10	1480.
30	8.52	31.04	24.12	1480.
50	8.53	31.06	24.14	1481.
75	8.54	31.13	24.19	1481.
100	8.54	31.18	24.22	1482.
125	8.50	31.32	24.34	1482.

STATION QST1 CRUISE 77-15 CONS # 30
 POSITION 50-41.9N 126-55.5W
 DATE 77/11/16 TIME 17:43:53 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.37	31.37	24.40	1480.
10	8.37	31.33	24.37	1480.
20	8.37	31.32	24.36	1480.
30	8.36	31.39	24.42	1480.
50	8.41	31.42	24.44	1481.
75	8.49	31.58	24.54	1482.
100	8.52	31.66	24.60	1482.
125	8.54	31.93	24.81	1483.
150	8.51	32.03	24.90	1483.
175	8.49	32.13	24.97	1484.
200	8.49	32.14	24.98	1484.

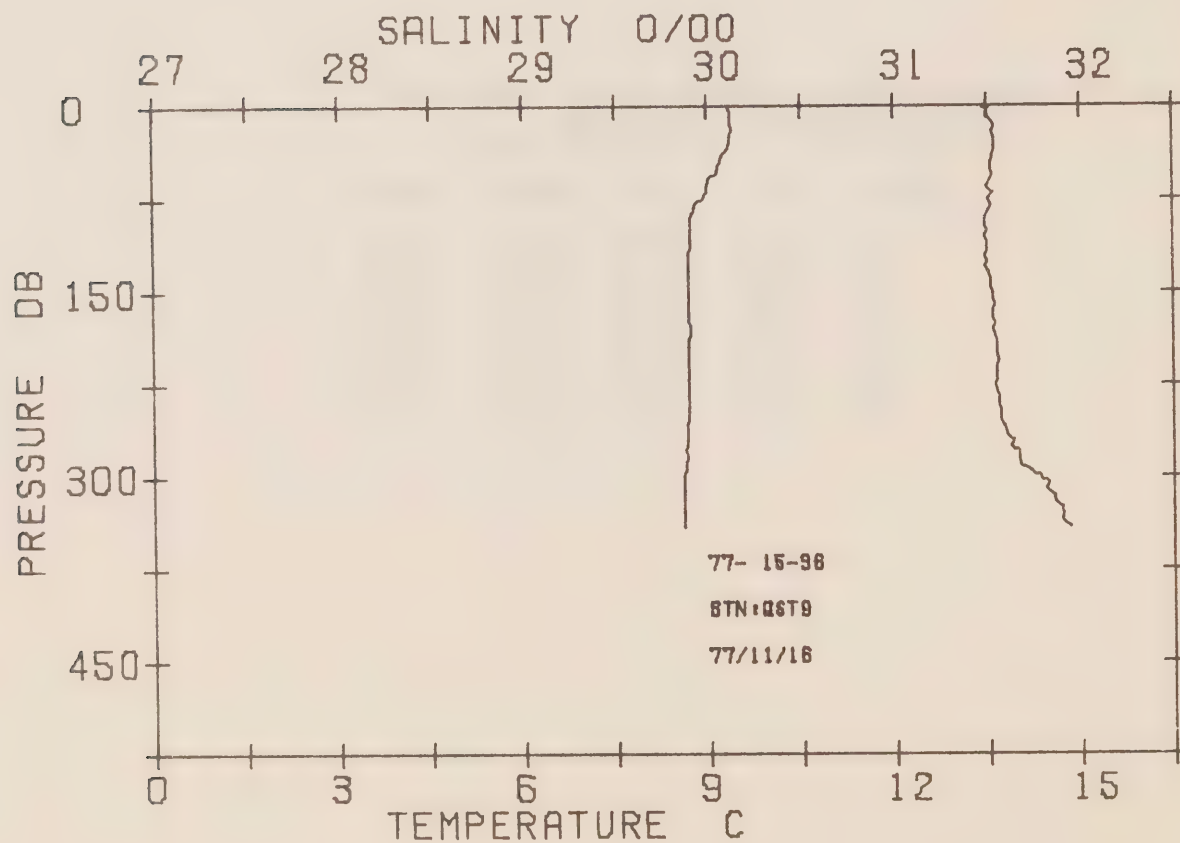
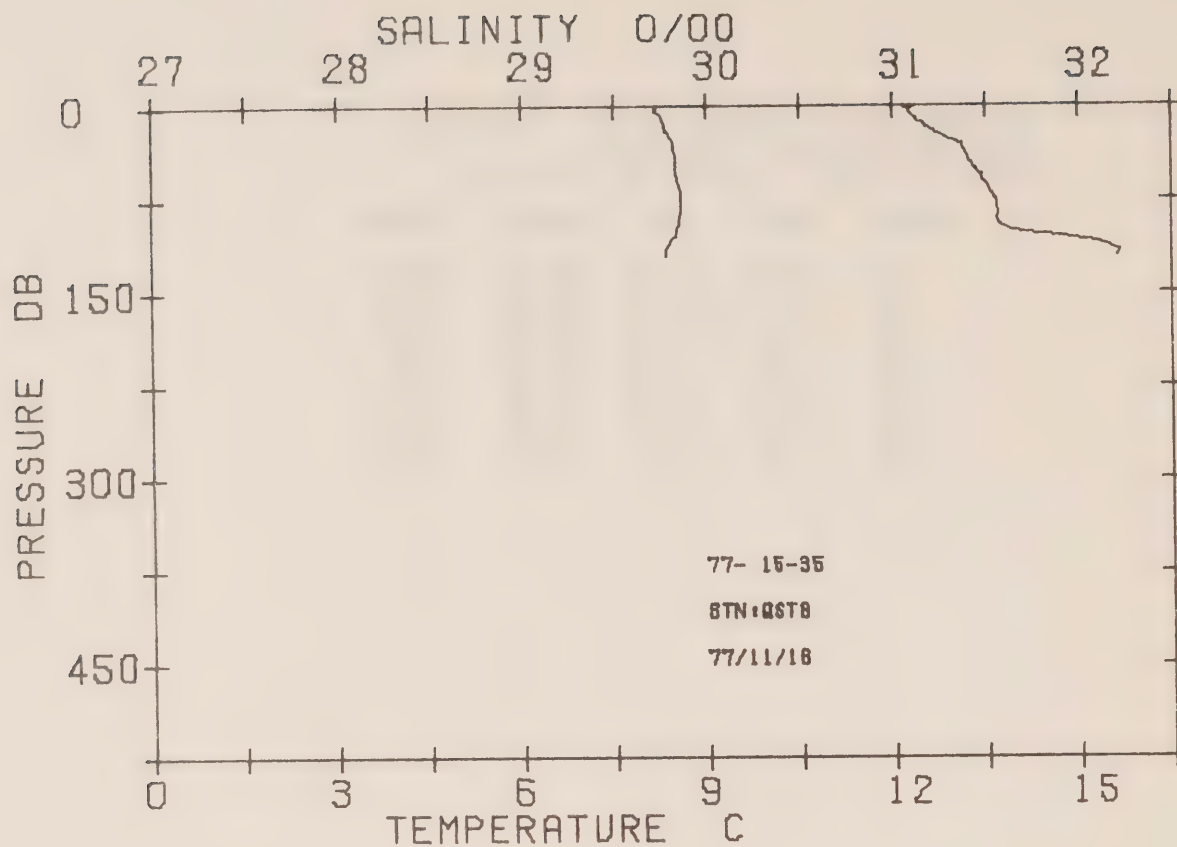


STATION QST2 CRUISE 77-15 CONS # 32
 POSITION 50-45.0N 127- 8.2W
 DATE 77/11/16 TIME 19: 1:19 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.33	31.13	24.22	1479.
10	8.25	31.17	24.26	1479.
20	8.31	31.18	24.26	1479.
30	8.40	31.34	24.37	1480.
50	8.52	31.48	24.46	1481.
75	8.57	31.54	24.51	1482.
100	8.70	31.67	24.58	1483.
125	8.64	31.77	24.67	1483.
150	8.60	31.82	24.72	1484.

STATION QST3 CRUISE 77-15 CONS # 33
 POSITION 50-51.0N 127-20.0W
 DATE 77/11/16 TIME 19:59: 8 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.23	31.02	24.15	1479.
10	8.20	31.05	24.17	1479.
20	8.22	31.05	24.17	1479.
30	8.24	31.09	24.20	1479.
50	8.26	31.11	24.21	1480.
75	8.36	31.30	24.35	1481.
100	8.45	31.60	24.56	1482.
125	8.45	31.91	24.81	1483.

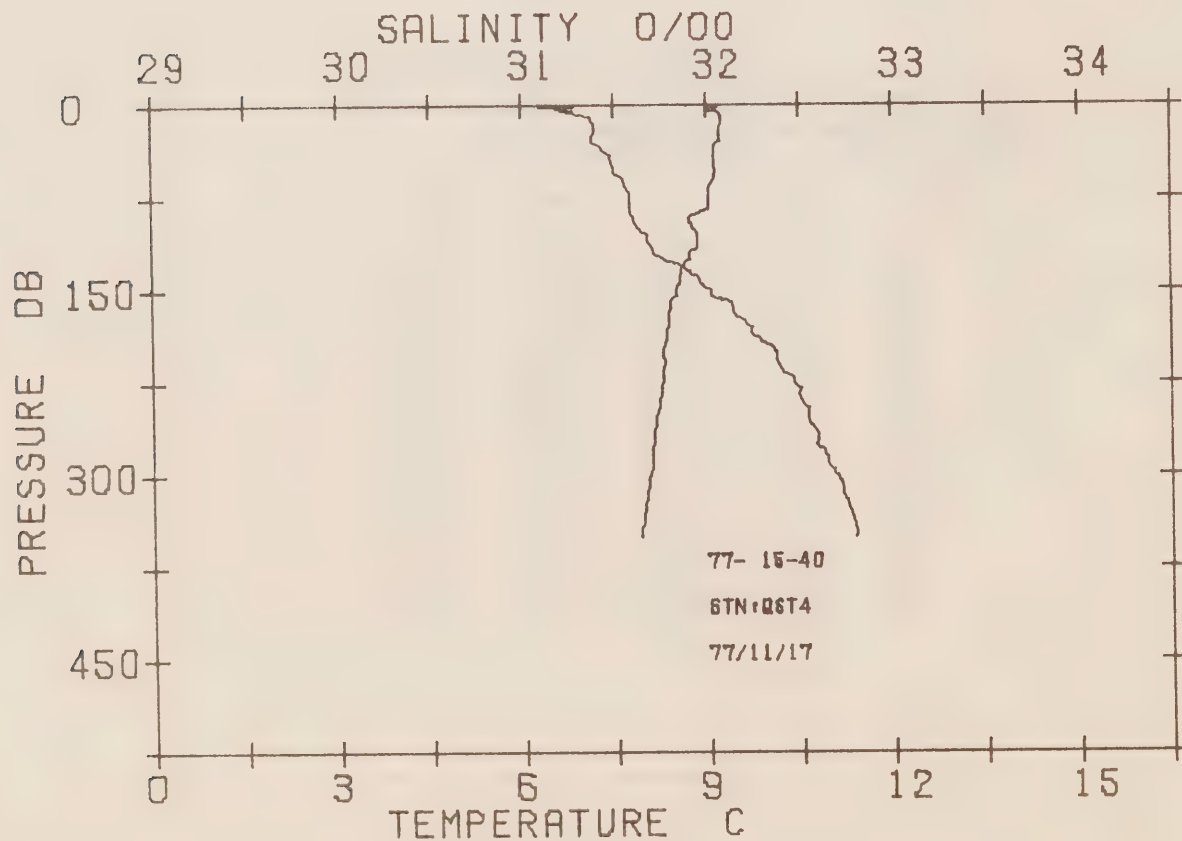
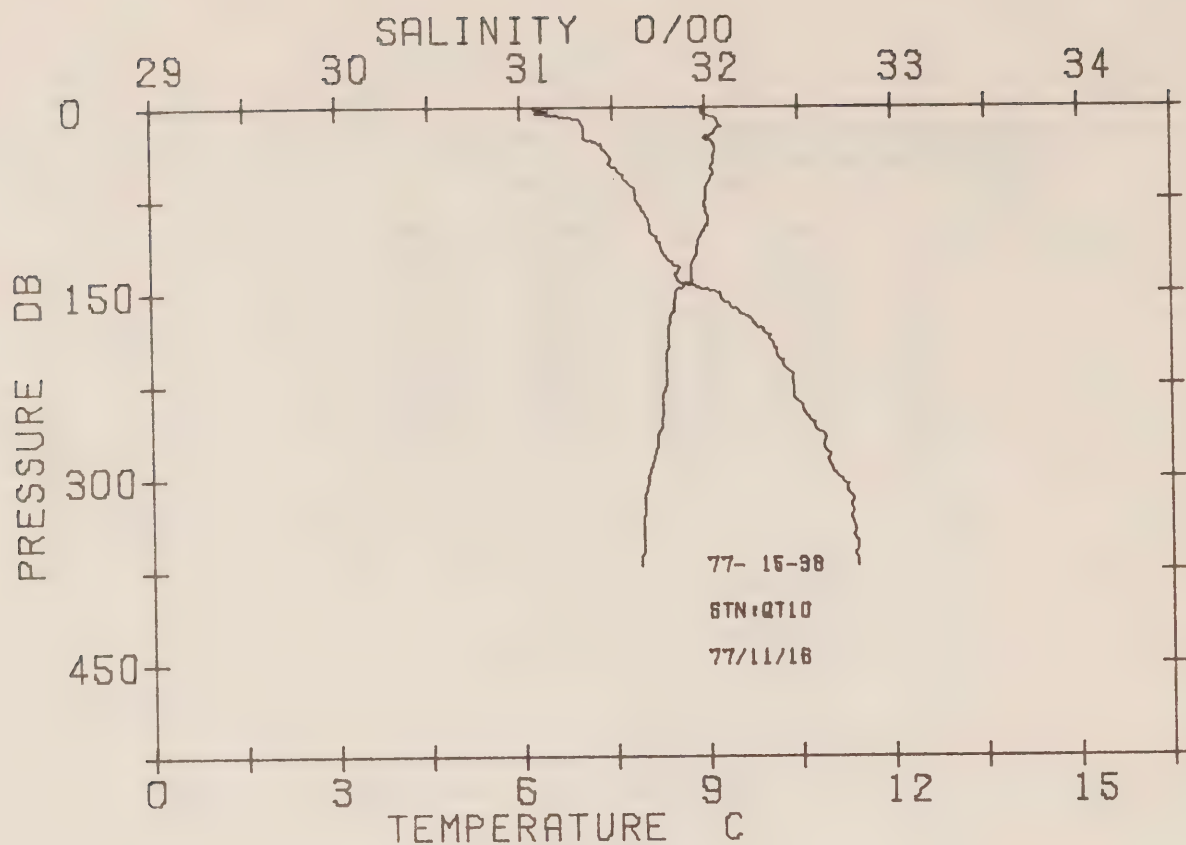


STATION QST8 CRUISE 77-15 CONS # 35
 POSITION 50-50.9N 127-30.0W
 DATE 77/11/16 TIME 21:18:56 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.19	31.08	24.20	1479.
10	8.27	31.13	24.23	1479.
20	8.34	31.23	24.29	1480.
30	8.46	31.37	24.39	1480.
50	8.50	31.45	24.44	1481.
75	8.59	31.56	24.51	1482.
100	8.54	31.64	24.59	1482.

STATION QST9 CRUISE 77-15 CONS # 36
 POSITION 50-52.6N 127-35.6W
 DATE 77/11/16 TIME 21:51: 8 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.35	31.49	24.35	1483.
10	9.38	31.51	24.36	1484.
20	9.40	31.53	24.37	1484.
30	9.39	31.54	24.38	1484.
50	9.20	31.52	24.39	1484.
75	8.95	31.51	24.42	1483.
100	8.71	31.50	24.45	1483.
125	8.70	31.50	24.46	1483.
150	8.70	31.53	24.48	1484.
175	8.70	31.54	24.49	1484.
200	8.69	31.55	24.50	1484.
225	8.69	31.54	24.48	1485.
250	8.69	31.57	24.51	1485.
275	8.65	31.63	24.56	1486.
300	8.60	31.78	24.69	1486.
325	8.58	31.90	24.78	1486.

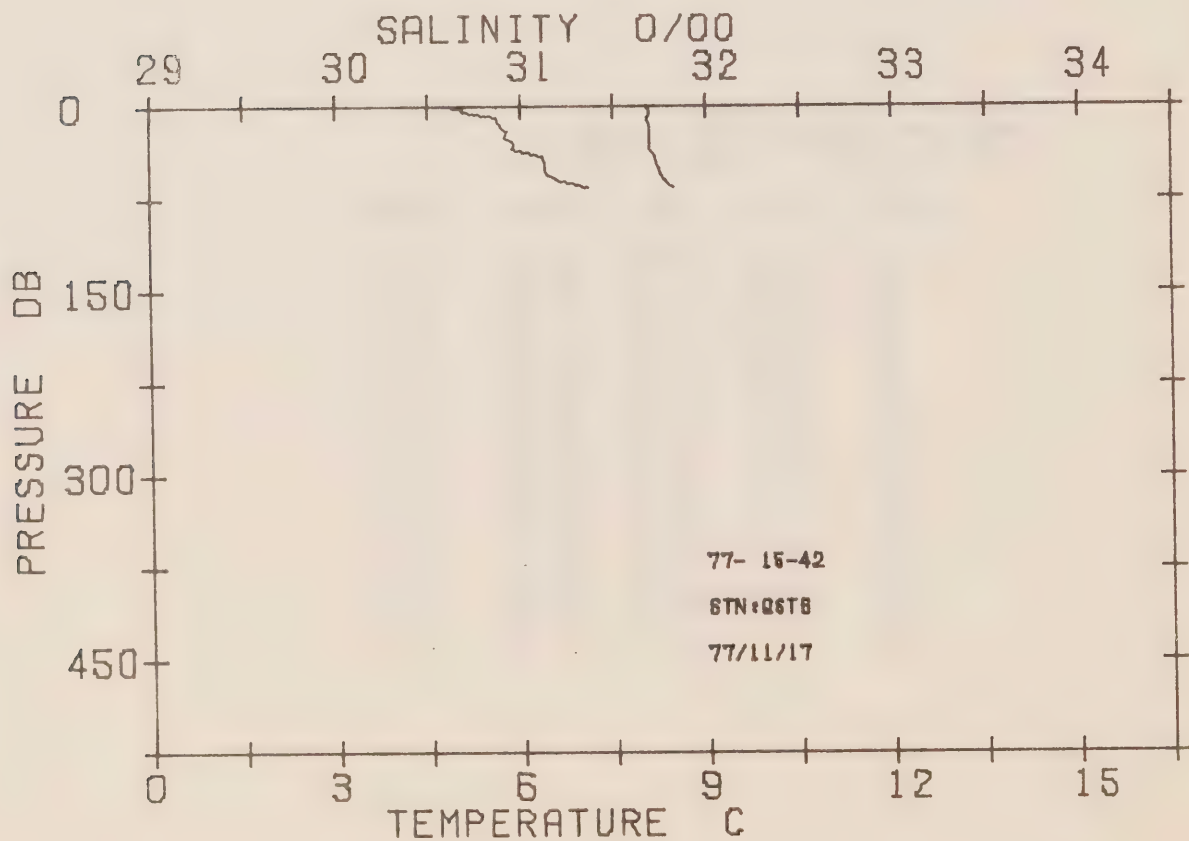
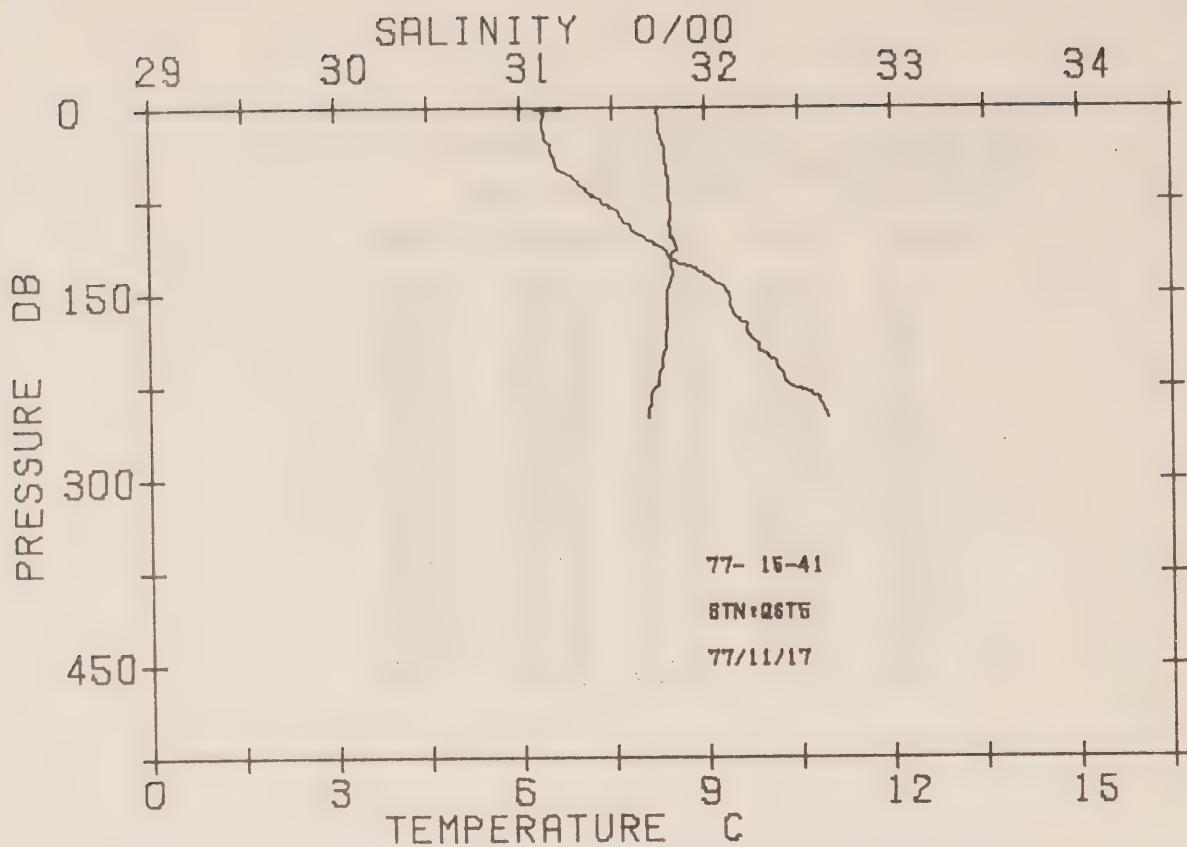


STATION QT10 CRUISE 77-15 CONS # 38
 POSITION 50-48.4N 127-35.5W
 DATE 77/11/16 TIME 23:39:11 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.95	31.08	24.09	1481.
10	9.20	31.32	24.23	1483.
20	9.15	31.34	24.26	1483.
30	9.13	31.44	24.34	1483.
50	9.09	31.52	24.40	1483.
75	9.01	31.63	24.50	1484.
100	8.97	31.70	24.57	1484.
125	8.77	31.81	24.69	1484.
150	8.51	32.07	24.93	1484.
175	8.40	32.26	25.09	1484.
200	8.35	32.38	25.19	1484.
225	8.33	32.47	25.27	1485.
250	8.27	32.54	25.33	1485.
275	8.18	32.63	25.42	1485.
300	8.04	32.72	25.50	1485.
325	7.96	32.78	25.56	1485.
350	7.94	32.80	25.58	1486.

STATION QST4 CRUISE 77-15 CONS # 40
 POSITION 50-47.0N 127-29.0W
 DATE 77/11/17 TIME 1: 8:55 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.03	31.15	24.13	1482.
10	9.26	31.37	24.26	1483.
20	9.23	31.40	24.29	1483.
30	9.21	31.39	24.29	1483.
50	9.14	31.50	24.38	1484.
75	9.03	31.58	24.46	1484.
100	8.79	31.64	24.55	1483.
125	8.72	31.77	24.66	1484.
150	8.51	32.02	24.89	1483.
175	8.37	32.21	25.06	1484.
200	8.29	32.37	25.20	1484.
225	8.27	32.47	25.28	1484.
250	8.19	32.54	25.34	1485.
275	8.14	32.58	25.38	1485.
300	8.07	32.70	25.48	1485.
325	7.98	32.76	25.54	1485.
350	7.92	32.79	25.57	1485.

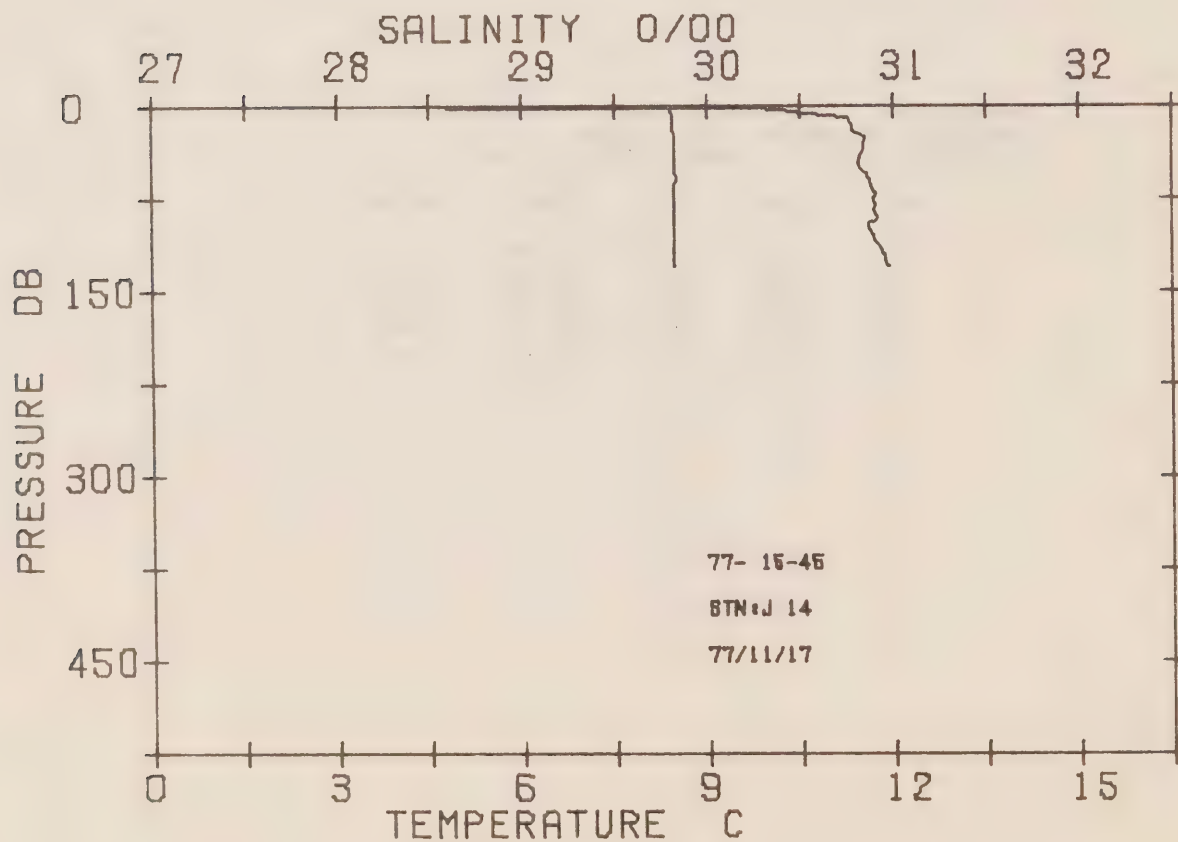
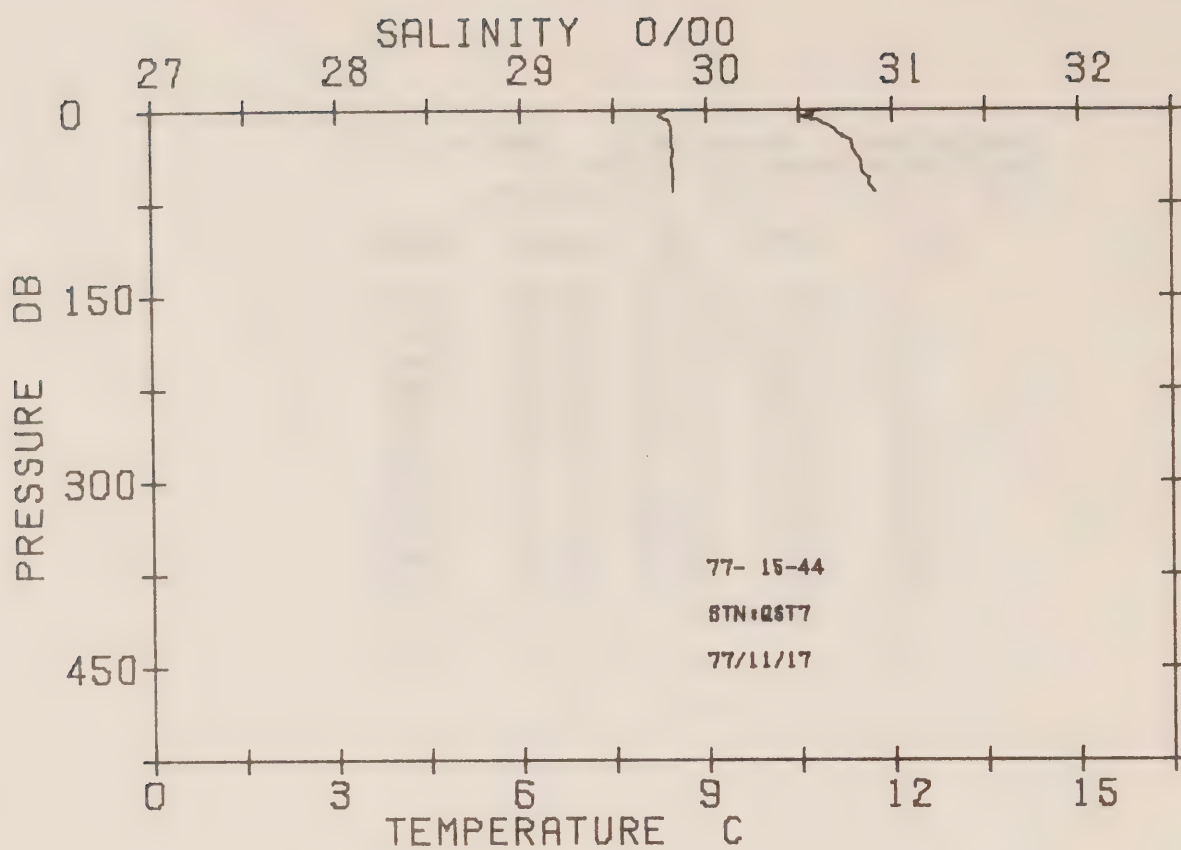


STATION QST5 CRUISE 77-15 CONS # 41
 POSITION 50-45.0N 127-20.0W
 DATE 77/11/17 TIME 1:59:51 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.24	31.23	24.31	1479.
10	8.24	31.13	24.23	1479.
20	8.24	31.14	24.24	1479.
30	8.32	31.17	24.25	1480.
50	8.36	31.21	24.27	1480.
75	8.42	31.44	24.45	1481.
100	8.43	31.61	24.58	1482.
125	8.43	31.84	24.76	1483.
150	8.39	32.13	24.99	1483.
175	8.36	32.22	25.07	1484.
200	8.30	32.33	25.16	1484.
225	8.21	32.46	25.28	1484.
250	8.05	32.66	25.46	1484.

STATION QST6 CRUISE 77-15 CONS # 42
 POSITION 50-40.5N 127-13.5W
 DATE 77/11/17 TIME 2:57:33 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.05	30.65	23.89	1477.
10	8.06	30.87	24.05	1478.
20	8.09	30.93	24.10	1478.
30	8.10	30.97	24.12	1479.
50	8.26	31.14	24.24	1480.

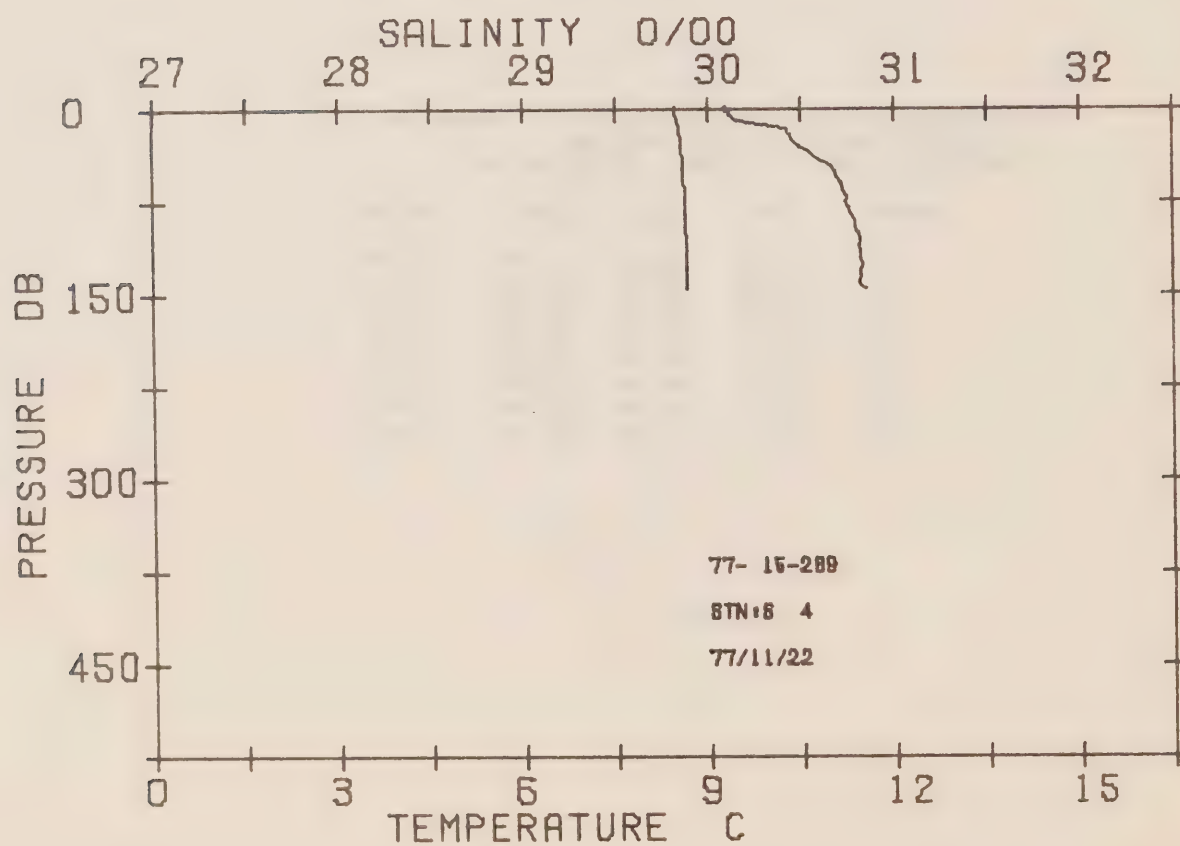
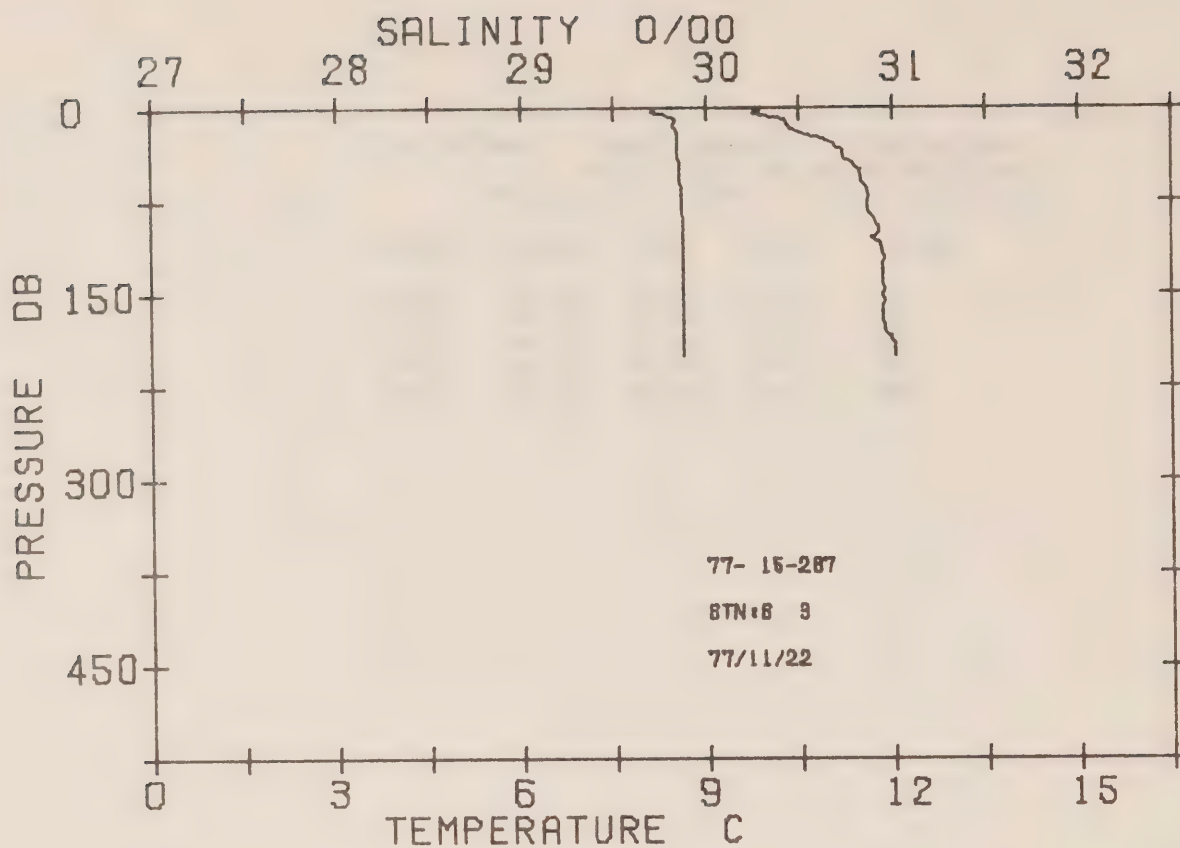


STATION QST7 CRUISE 77-15 CONS # 44
 POSITION 50-37.3N 127- 5.0W
 DATE 77/11/17 TIME 4: 4:45 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.31	30.63	23.83	1478.
10	8.40	30.63	23.82	1479.
20	8.45	30.73	23.89	1479.
30	8.45	30.79	23.93	1480.
50	8.46	30.84	23.97	1480.

STATION J 14 CRUISE 77-15 CONS # 45
 POSITION 50-34.0N 126-52.0W
 DATE 77/11/17 TIME 5:10:52 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.39	29.29	22.77	1477.
10	8.45	30.76	23.91	1479.
20	8.45	30.78	23.92	1479.
30	8.48	30.84	23.97	1480.
50	8.48	30.82	23.95	1480.
75	8.46	30.90	24.02	1481.
100	8.48	30.88	24.00	1481.
125	8.47	30.96	24.06	1482.



STATION S 3 CRUISE 77-15 CONS #287
 POSITION 50-28.2N 125-52.3W
 DATE 77/11/22 TIME 7:58: 0 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.17	30.14	23.47	1477.
10	8.51	30.43	23.64	1479.
20	8.52	30.50	23.70	1479.
30	8.53	30.69	23.85	1480.
50	8.56	30.82	23.94	1480.
75	8.58	30.86	23.97	1481.
100	8.62	30.93	24.02	1482.
125	8.64	30.95	24.03	1482.
150	8.63	30.95	24.03	1483.
175	8.62	30.96	24.04	1483.
200	8.62	31.01	24.08	1483.

STATION S 4 CRUISE 77-15 CONS #289
 POSITION 50-29.0N 125-47.9W
 DATE 77/11/22 TIME 9: 0: 0 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.47	30.10	23.39	1478.
10	8.49	30.16	23.44	1479.
20	8.54	30.45	23.66	1479.
30	8.55	30.49	23.68	1480.
50	8.60	30.69	23.83	1480.
75	8.62	30.74	23.87	1481.
100	8.64	30.81	23.92	1482.
125	8.65	30.83	23.93	1482.

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DATA RECORD OF CURRENT OBSERVATIONS

VOLUME VIII

DISCOVERY PASSAGE, JOHNSTONE STRAIT AND QUEEN CHARLOTTE STRAIT

PART 2 - APPENDICES (LISTING OF WATER PROPERTY DATA)

APPENDIX A(2) - 1978 and 1979

by R.E. Thomson, W.S. Huggett and L.S.C. Kuwahara



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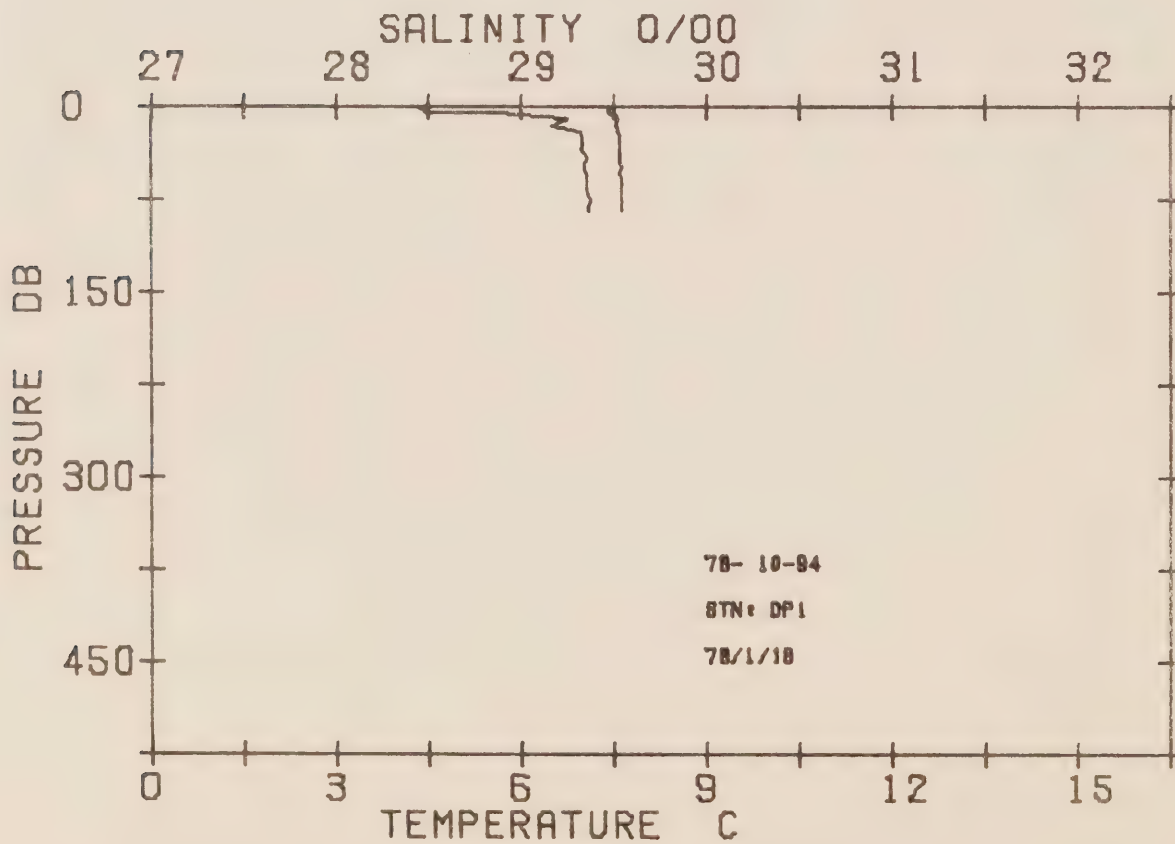
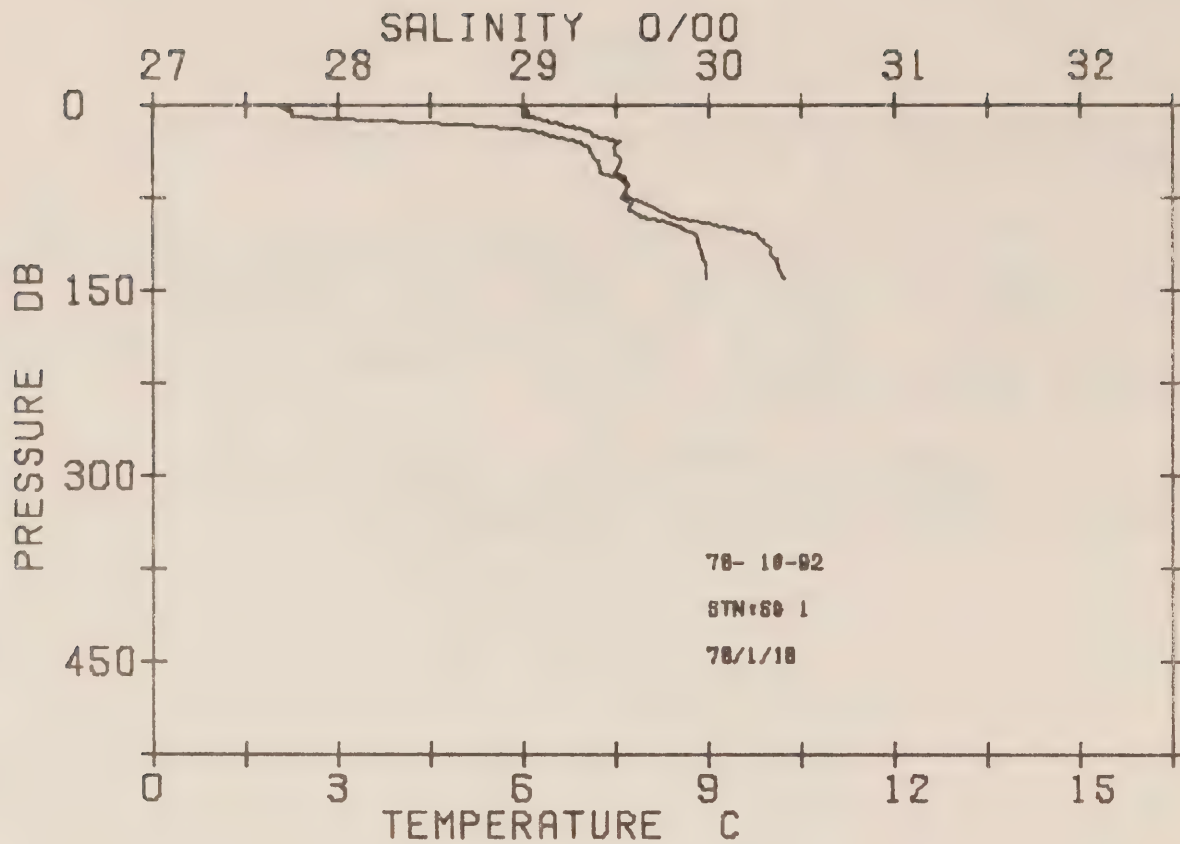
Institute of Ocean Sciences
Sidney, B.C.
1980

APPENDIX A
(Continued)

Listings and profiles of physical properties: temperature, salinity, sigma-t and sound speed.

Values have been determined from hydro-corrected CTD measurements and are listed for standard depths supplemented to 25 metre increments below depths of 200 metres. Units are: depth -- metres; temperature -- degrees celsius; salinity -- parts per thousand; sigma-t -- no units; sound speed -- metres per second. Plots are based on digitized values every metre to 10 m depth and at every 5 m below 10 m depth.

For time-series stations, only the first and last casts have been included. (See Appendix B for time-series listings.) The header for each cast has the format shown on page 1 of Appendix A.

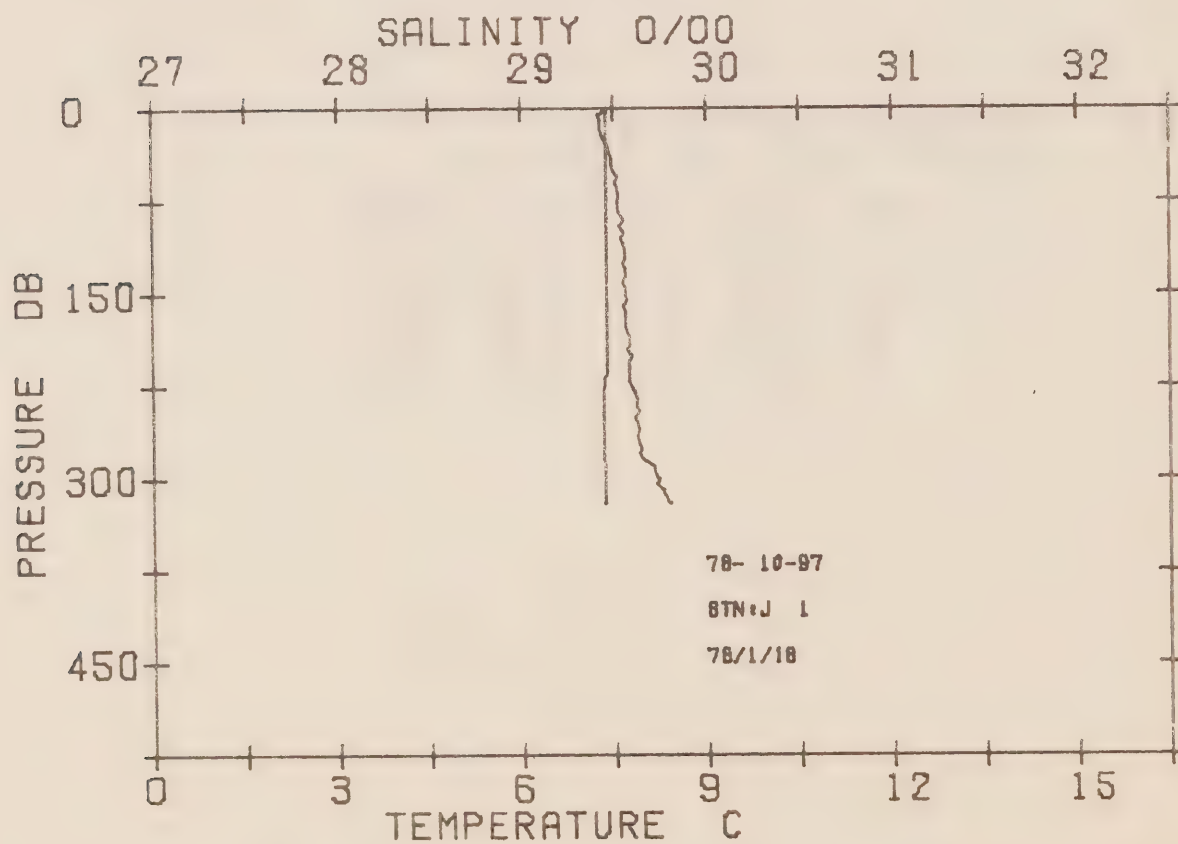
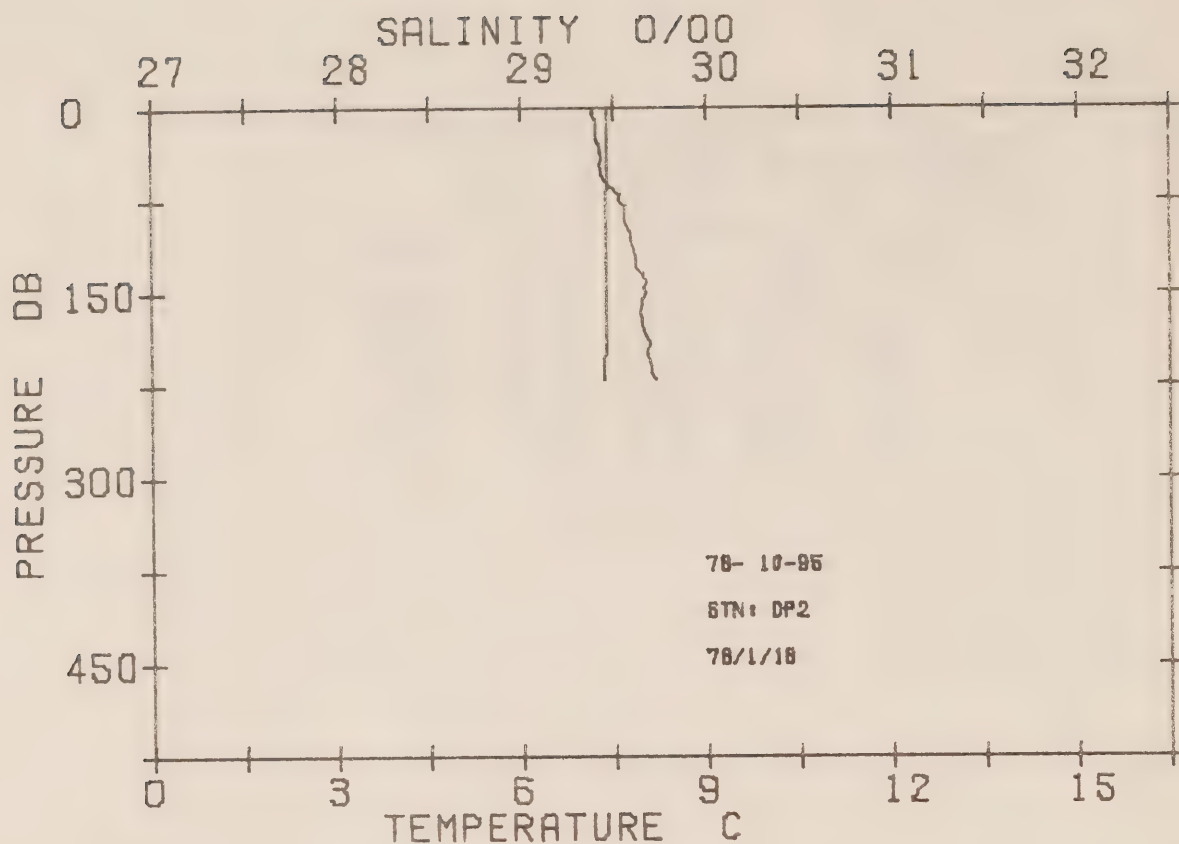


STATION SG 1 CRUISE 78-10 CONS # 92
 POSITION 49-55.0N 125- 5.5W
 DATE 78/ 1/18 TIME 14:50:21 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	6.03	27.71	21.83	1466.
10	6.08	27.75	21.86	1466.
20	7.02	29.06	22.77	1472.
30	7.55	29.31	22.90	1474.
50	7.57	29.42	22.99	1475.
75	7.59	29.57	23.10	1475.
100	8.57	30.12	23.39	1480.
125	8.90	30.36	23.53	1482.

STATION DP1 CRUISE 78-10 CONS # 94
 POSITION 50- 5.1N 125-16.4W
 DATE 78/ 1/18 TIME 16: 8:21 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.41	28.45	22.25	1472.
10	7.55	29.25	22.86	1474.
20	7.57	29.32	22.90	1474.
30	7.60	29.33	22.91	1475.
50	7.61	29.34	22.92	1475.
75	7.61	29.37	22.94	1475.

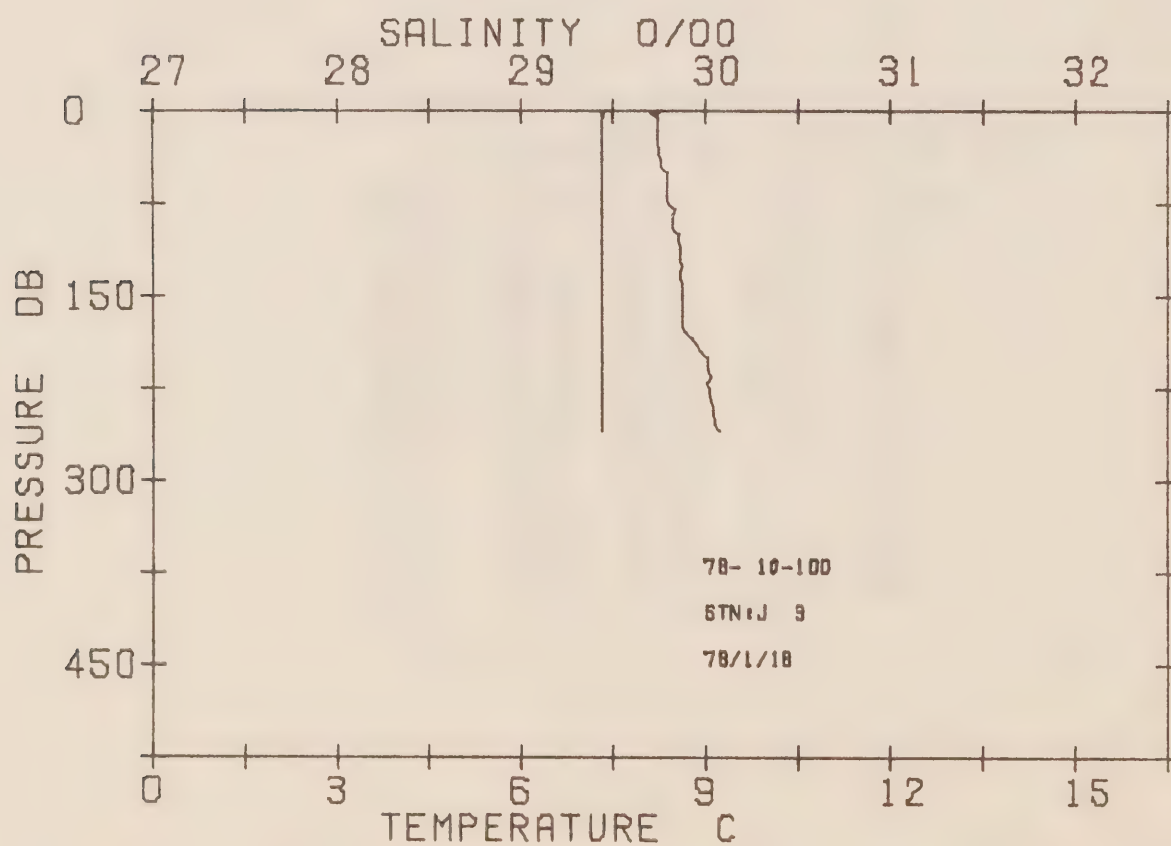
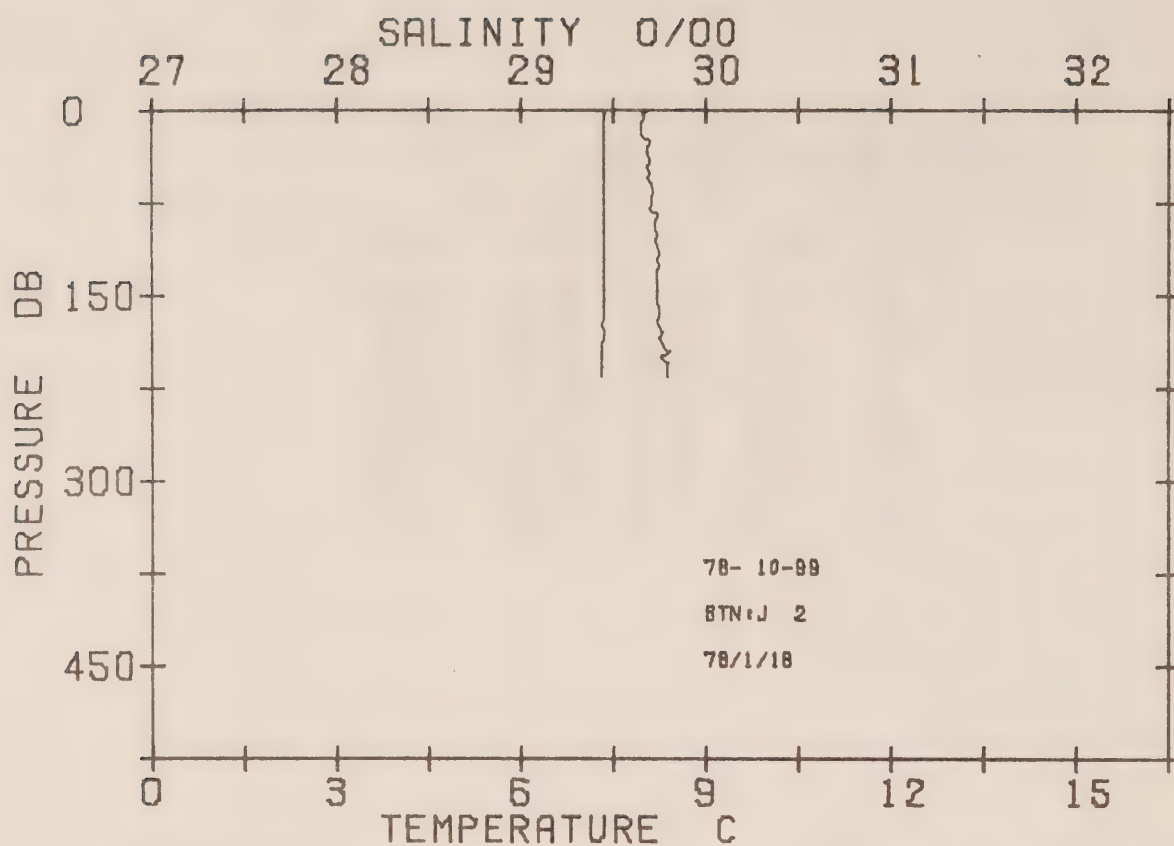


STATION DP2 CRUISE 78-10 CONS # 95
 POSITION 50-14.7N 125-23.0W
 DATE 78/ 1/18 TIME 17: 0:28 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.41	29.40	22.99	1473.
10	7.42	29.41	23.00	1474.
20	7.42	29.41	23.00	1474.
30	7.41	29.43	23.02	1474.
50	7.41	29.44	23.02	1474.
75	7.39	29.53	23.10	1475.
100	7.38	29.59	23.15	1475.
125	7.37	29.63	23.18	1476.
150	7.36	29.68	23.21	1476.
175	7.36	29.66	23.20	1476.
200	7.36	29.69	23.23	1477.

STATION J 1 CRUISE 78-10 CONS # 97
 POSITION 50-20.7N 125-25.5W
 DATE 78/ 1/18 TIME 18:16:48 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.41	29.47	23.04	1473.
10	7.39	29.43	23.02	1473.
20	7.39	29.44	23.03	1474.
30	7.38	29.47	23.05	1474.
50	7.38	29.50	23.07	1474.
75	7.38	29.52	23.09	1475.
100	7.36	29.55	23.12	1475.
125	7.36	29.55	23.12	1475.
150	7.36	29.56	23.12	1476.
175	7.36	29.56	23.12	1476.
200	7.36	29.59	23.14	1477.
225	7.35	29.59	23.14	1477.
250	7.32	29.61	23.17	1477.
275	7.30	29.65	23.20	1478.
300	7.33	29.74	23.27	1478.

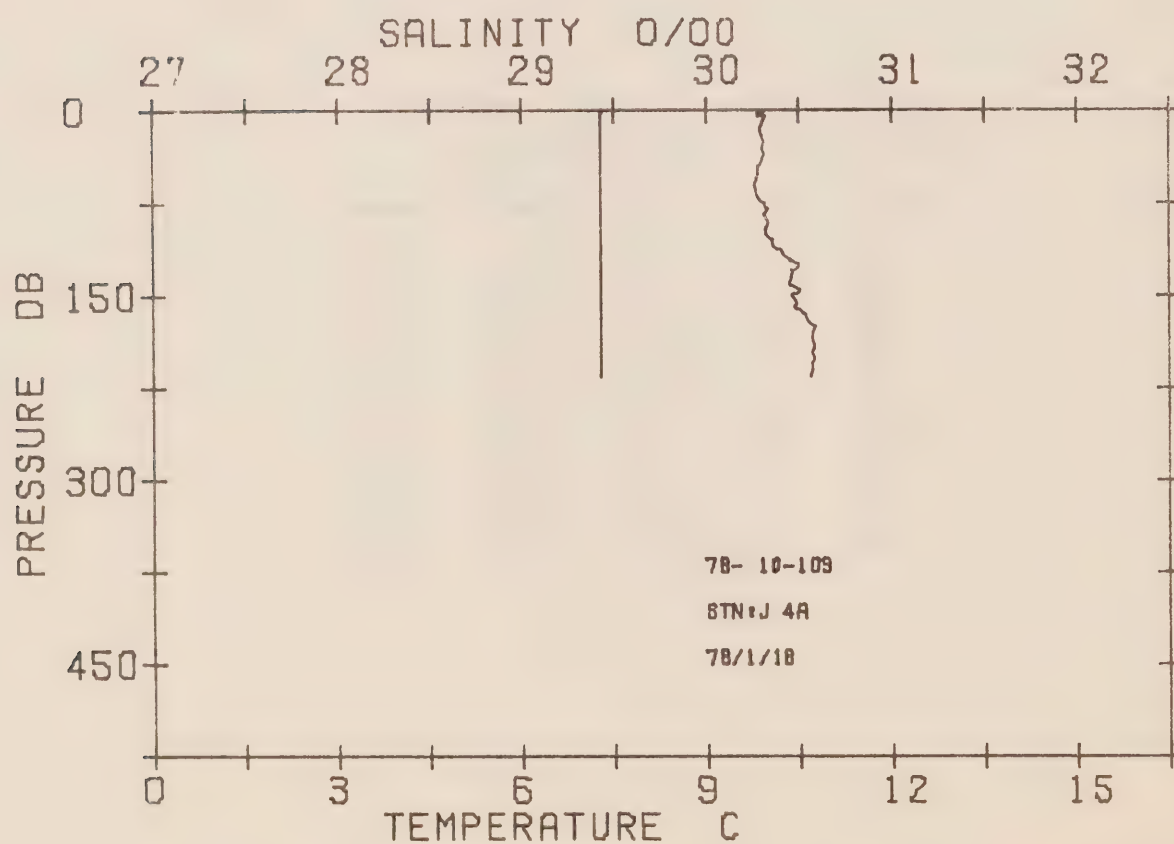
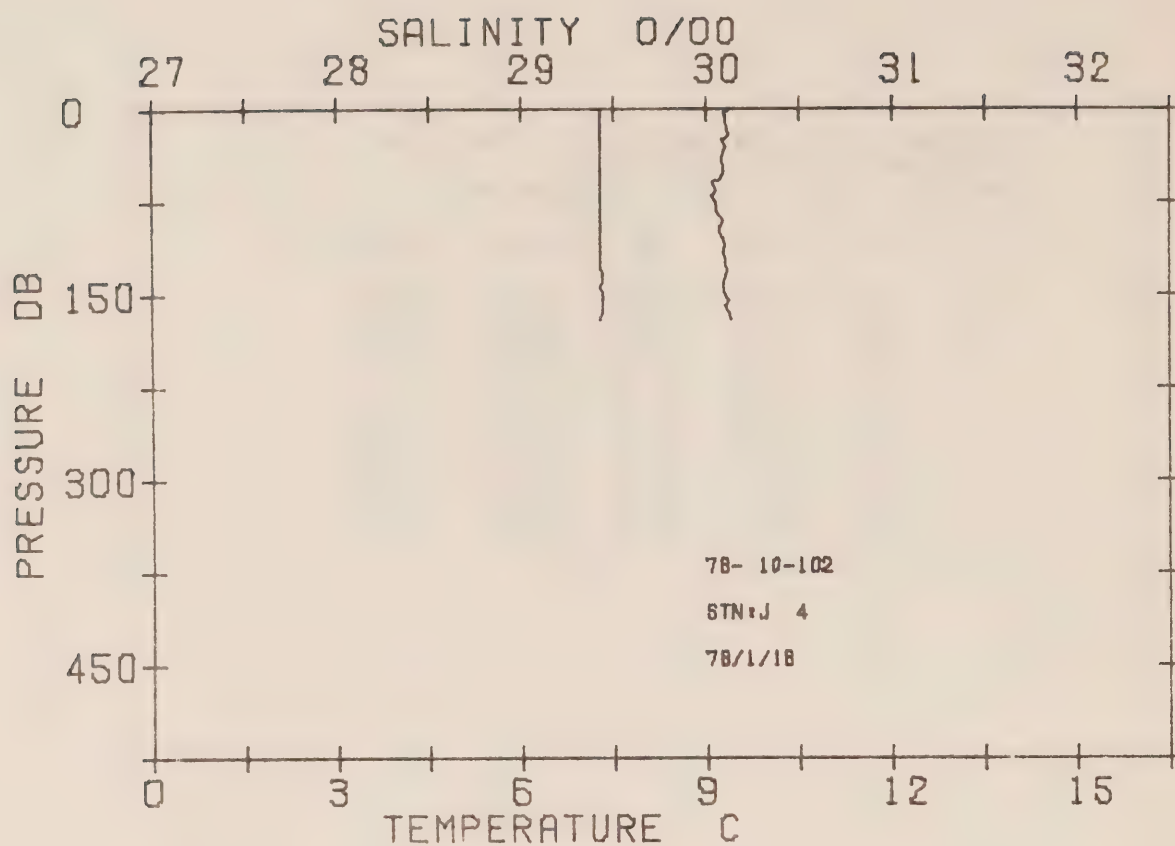


STATION J 2 CRUISE 78-10 CONS # 99
 POSITION 50-22.2N 125-25.5W
 DATE 78/ 1/18 TIME 19:29:28 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.33	29.67	23.21	1473.
10	7.33	29.66	23.20	1474.
20	7.33	29.66	23.20	1474.
30	7.33	29.69	23.23	1474.
50	7.33	29.70	23.24	1474.
75	7.33	29.71	23.25	1475.
100	7.33	29.74	23.27	1475.
125	7.33	29.75	23.28	1476.
150	7.33	29.74	23.27	1476.
175	7.32	29.75	23.28	1476.
200	7.32	29.76	23.29	1477.

STATION J 3 CRUISE 78-10 CONS #100
 POSITION 50-22.2N 125-39.0W
 DATE 78/ 1/18 TIME 20:15:22 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.33	29.73	23.26	1473.
10	7.32	29.74	23.27	1474.
20	7.32	29.74	23.27	1474.
30	7.32	29.75	23.27	1474.
50	7.32	29.79	23.31	1474.
75	7.32	29.80	23.32	1475.
100	7.31	29.85	23.36	1475.
125	7.32	29.87	23.37	1476.
150	7.32	29.88	23.38	1476.
175	7.32	29.88	23.38	1476.
200	7.30	30.01	23.48	1477.
225	7.30	30.02	23.49	1477.
250	7.30	30.05	23.52	1478.

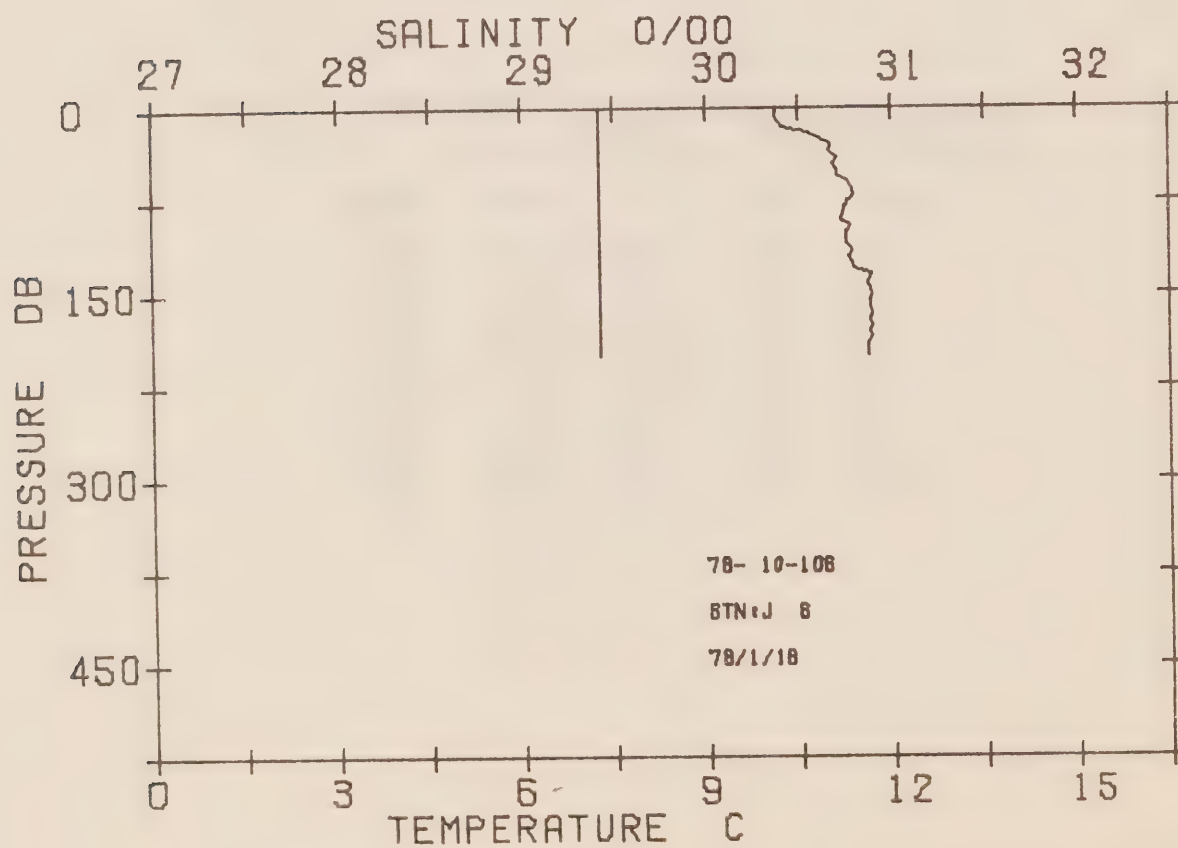
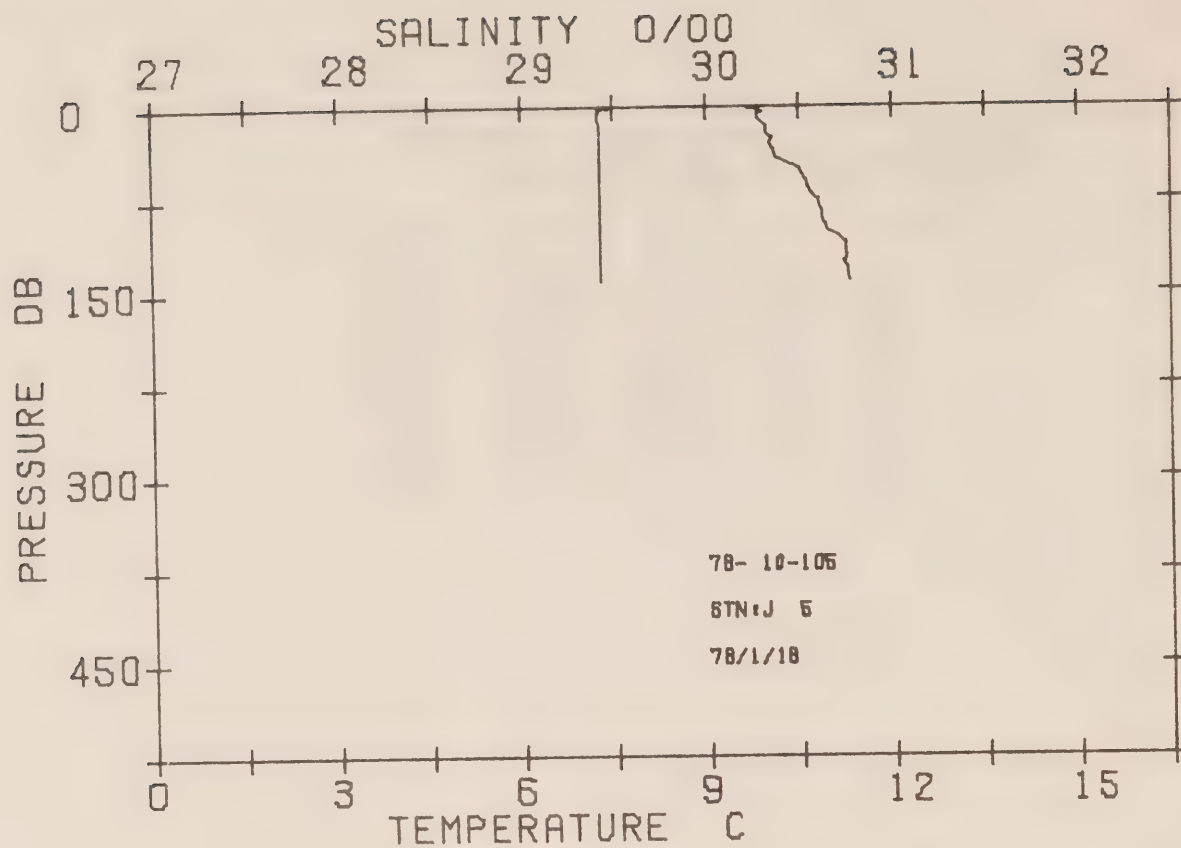


STATION J 4 CRUISE 78-10 CONS #102
 POSITION 50-22.7N 125-47.0W
 DATE 78/ 1/18 TIME 21:29:45 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.28	30.11	23.56	1474.
10	7.29	30.10	23.56	1474.
20	7.29	30.12	23.57	1474.
30	7.29	30.10	23.56	1474.
50	7.29	30.09	23.55	1475.
75	7.29	30.05	23.52	1475.
100	7.29	30.07	23.53	1475.
125	7.29	30.10	23.55	1476.
150	7.30	30.10	23.56	1476.

STATION J 4A CRUISE 78-10 CONS #103
 POSITION 50-23.5N 125-53.4W
 DATE 78/ 1/18 TIME 22:21:48 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.28	30.28	23.70	1474.
10	7.27	30.30	23.71	1474.
20	7.27	30.30	23.71	1474.
30	7.27	30.30	23.71	1474.
50	7.28	30.28	23.70	1475.
75	7.28	30.31	23.72	1475.
100	7.28	30.32	23.73	1476.
125	7.28	30.50	23.87	1476.
150	7.29	30.47	23.85	1477.
175	7.29	30.58	23.93	1477.
200	7.29	30.58	23.93	1478.

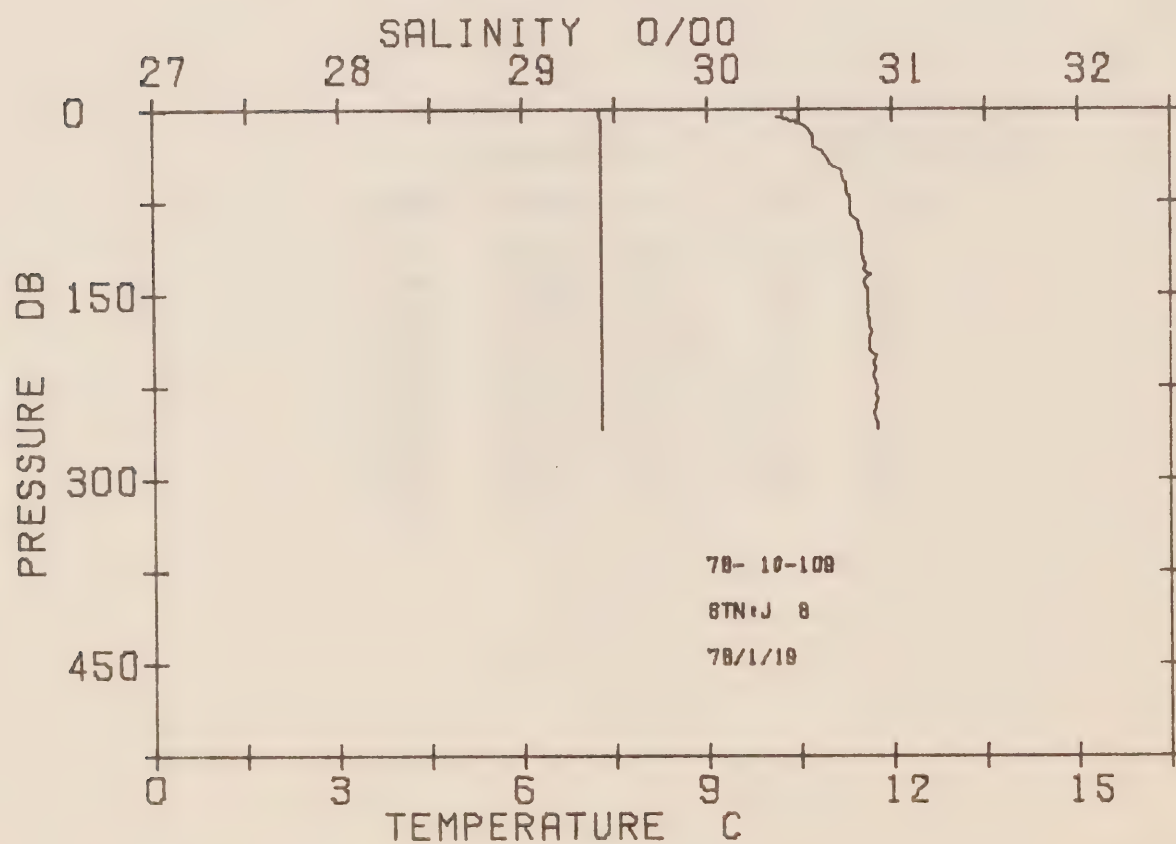
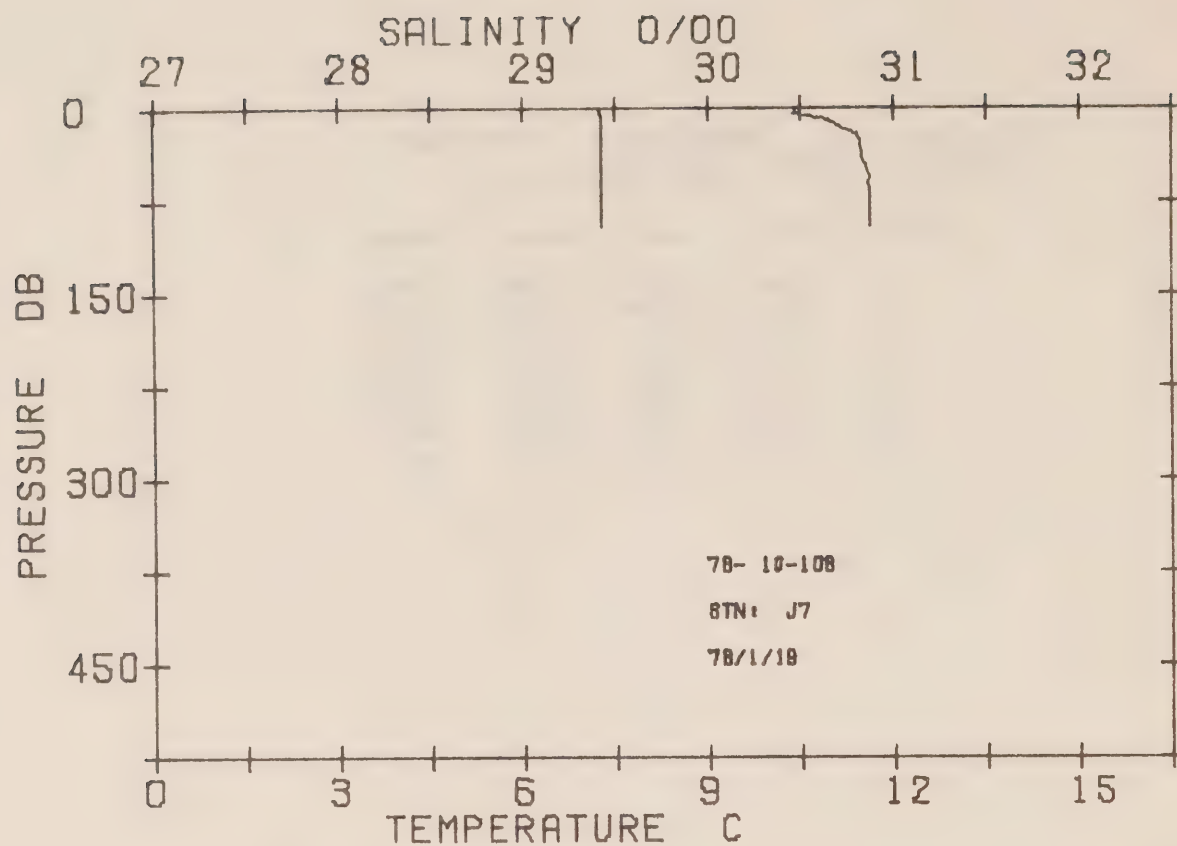


STATION J 5 CRUISE 78-10 CONS #105
 POSITION 50-24.5N 125-56.8W
 DATE 78/ 1/18 TIME 23:23; 1 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.46	30.23	23.64	1475.
10	7.26	30.28	23.70	1474.
20	7.27	30.32	23.73	1474.
30	7.27	30.34	23.75	1475.
50	7.27	30.51	23.88	1475.
75	7.28	30.60	23.94	1476.
100	7.28	30.66	23.99	1476.
125	7.28	30.74	24.06	1477.

STATION J 6 CRUISE 78-10 CONS #106
 POSITION 50-26.4N 126- .7W
 DATE 78/ 1/18 TIME 23:48:55 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.27	30.38	23.78	1474.
10	7.27	30.39	23.79	1474.
20	7.27	30.56	23.91	1475.
30	7.27	30.68	24.01	1475.
50	7.27	30.71	24.03	1475.
75	7.28	30.77	24.06	1476.
100	7.28	30.76	24.06	1476.
125	7.28	30.79	24.09	1477.
150	7.28	30.90	24.18	1477.
175	7.28	30.90	24.18	1478.
200	7.28	30.87	24.16	1478.

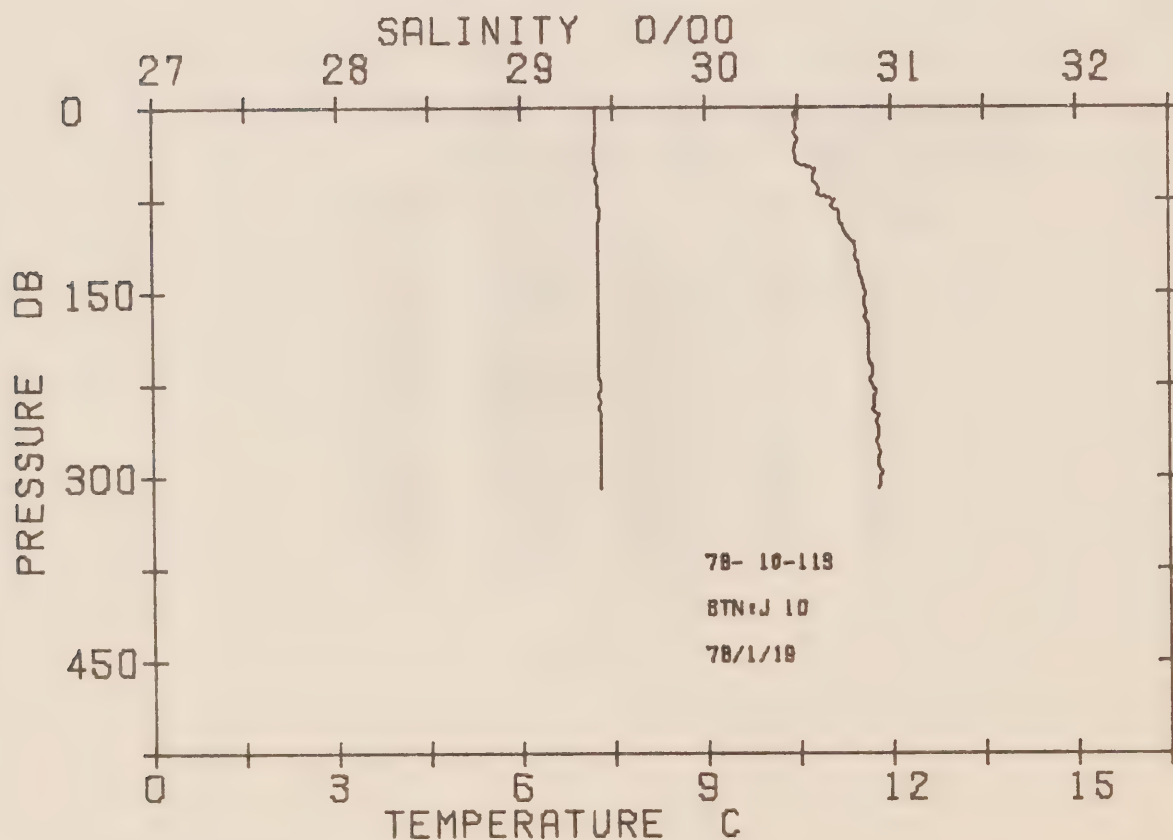
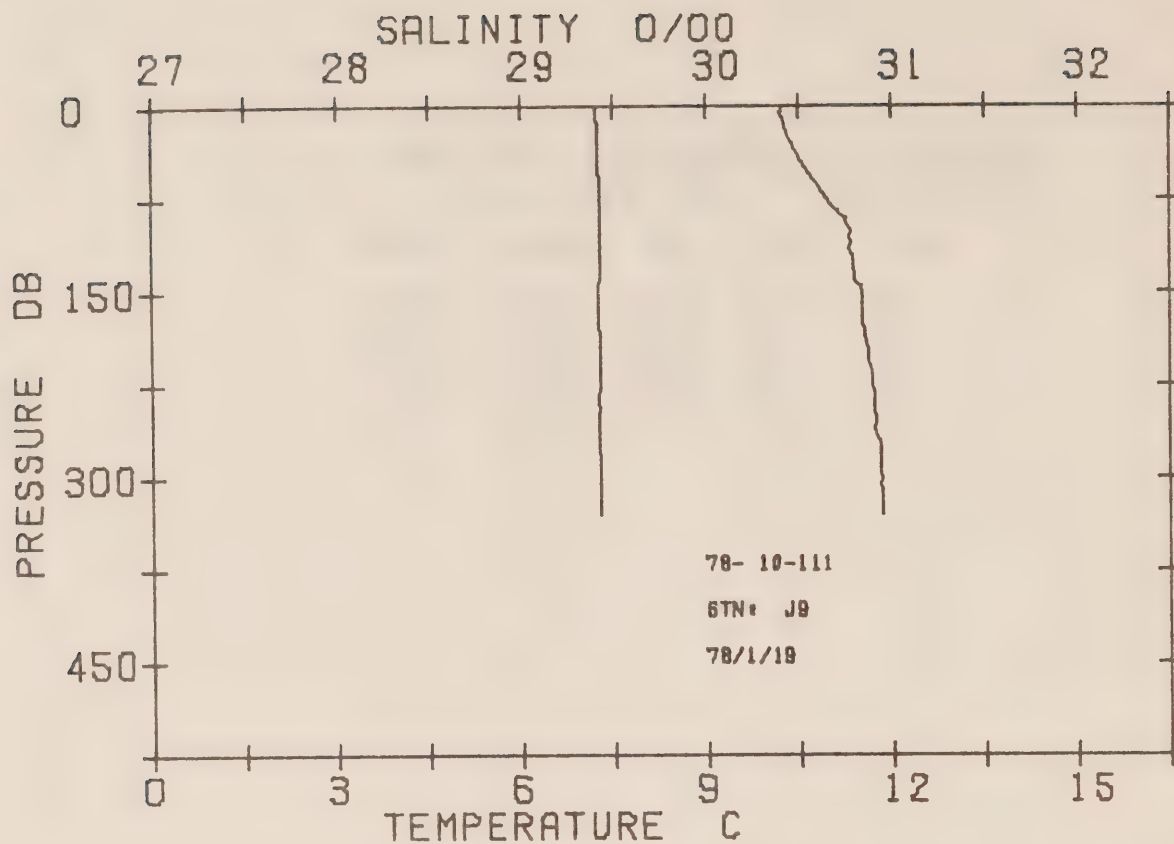


STATION J7 CRUISE 78-10 CONS #108
 POSITION 50-26.9N 126- 2.1W
 DATE 78/ 1/19 TIME 0:33: 0 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.26	30.47	23.85	1474.
10	7.27	30.66	24.00	1475.
20	7.28	30.80	24.11	1475.
30	7.27	30.82	24.12	1475.
50	7.27	30.86	24.15	1476.
75	7.27	30.87	24.16	1476.

STATION J 8 CRUISE 78-10 CONS #109
 POSITION 50-27.5N 126- 3.4W
 DATE 78/ 1/19 TIME 0:51:32 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.24	30.41	23.80	1474.
10	7.27	30.48	23.85	1474.
20	7.27	30.57	23.93	1475.
30	7.27	30.57	23.93	1475.
50	7.27	30.73	24.05	1475.
75	7.28	30.77	24.08	1476.
100	7.27	30.83	24.13	1476.
125	7.27	30.85	24.14	1477.
150	7.27	30.86	24.15	1477.
175	7.27	30.87	24.16	1478.
200	7.27	30.91	24.19	1478.
225	7.28	30.92	24.20	1478.
250	7.28	30.91	24.19	1479.

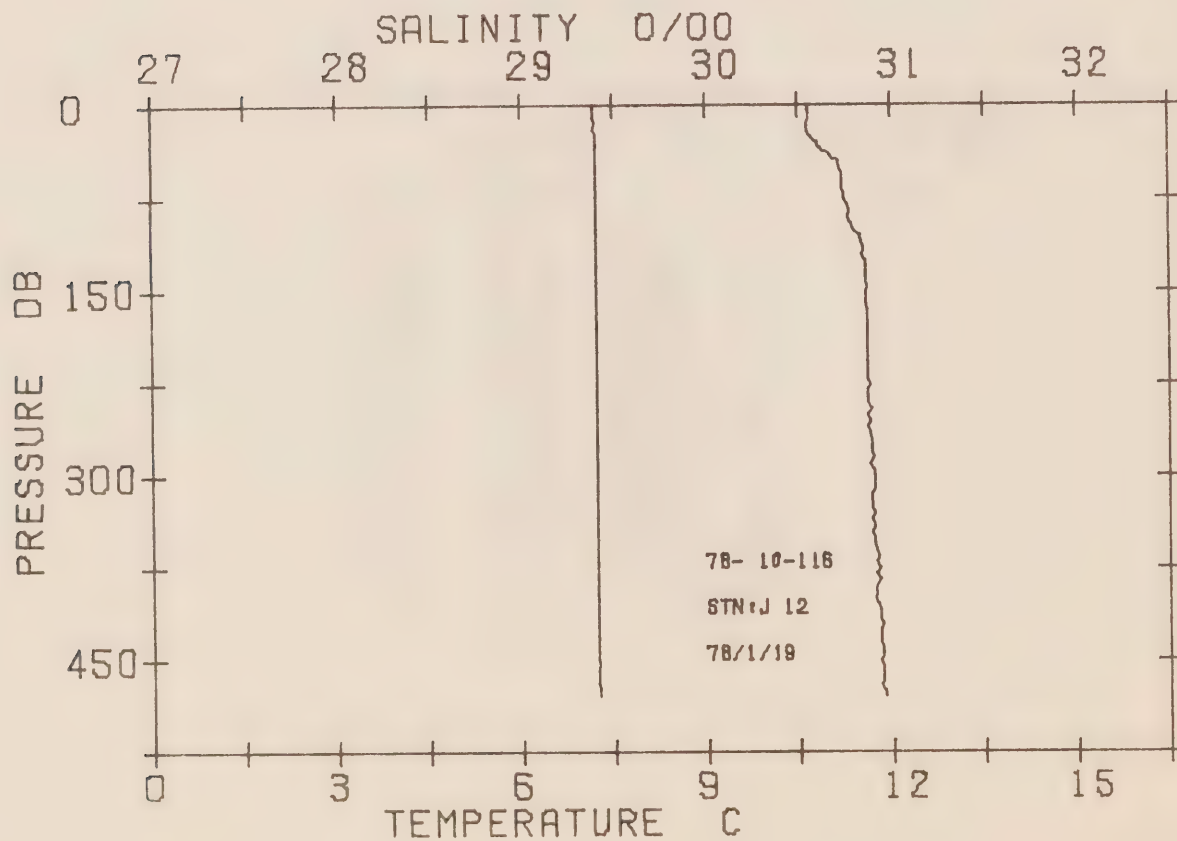
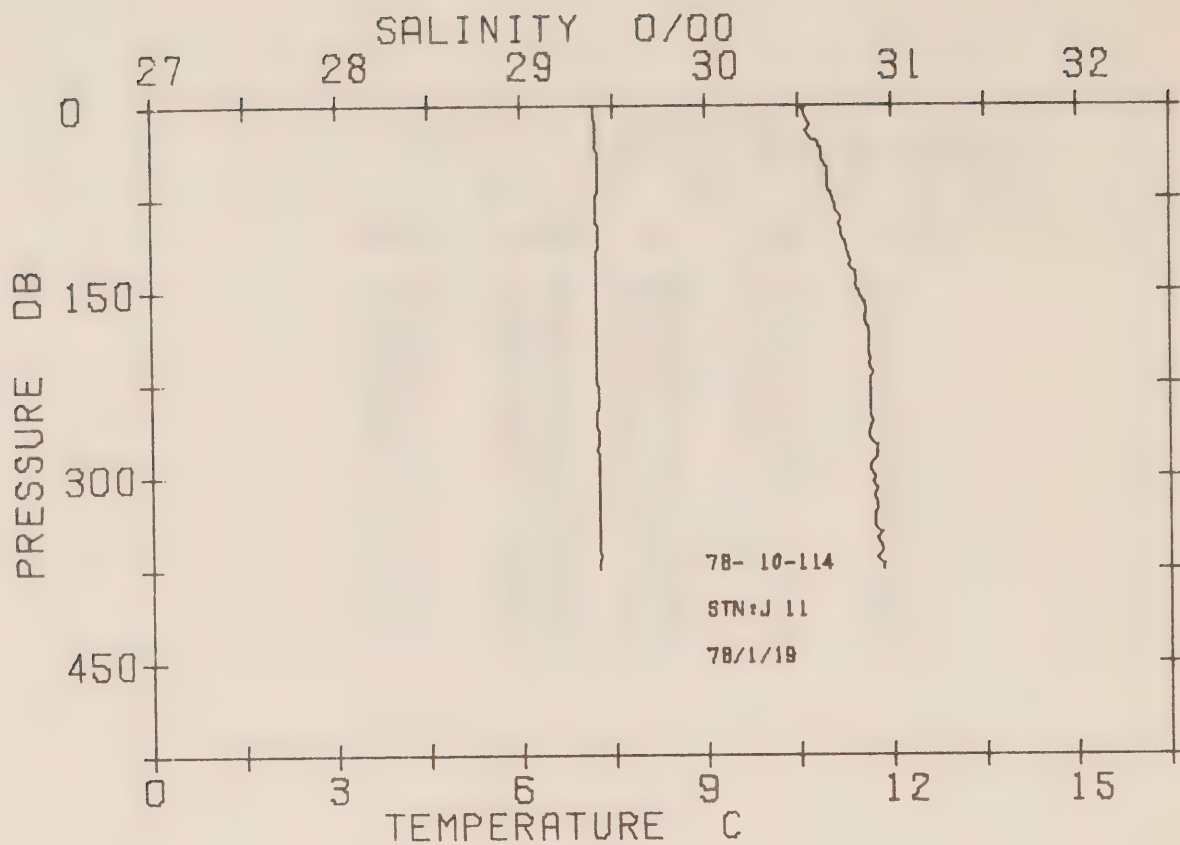


STATION J9 CRUISE 78-10 CONS #111
 POSITION 50-28.5N 126-10.7W
 DATE 78/ 1/19 TIME 2:12: 9 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.23	30.41	23.81	1474.
10	7.23	30.42	23.81	1474.
20	7.25	30.44	23.83	1474.
30	7.26	30.47	23.85	1475.
50	7.26	30.54	23.90	1475.
75	7.28	30.66	24.00	1476.
100	7.28	30.78	24.09	1476.
125	7.27	30.79	24.10	1477.
150	7.26	30.84	24.14	1477.
175	7.26	30.84	24.14	1477.
200	7.27	30.87	24.16	1478.
225	7.28	30.90	24.18	1478.
250	7.26	30.92	24.20	1479.
275	7.26	30.94	24.21	1479.
300	7.28	30.95	24.22	1480.
325	7.28	30.95	24.22	1480.

STATION J 10 CRUISE 78-10 CONS #113
 POSITION 50-29.7N 123-18.7W
 DATE 78/ 1/19 TIME 3:37:32 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.23	30.49	23.87	1474.
10	7.23	30.49	23.87	1474.
20	7.23	30.48	23.86	1474.
30	7.23	30.49	23.87	1475.
50	7.22	30.59	23.95	1475.
75	7.26	30.70	24.03	1476.
100	7.26	30.75	24.06	1476.
125	7.26	30.82	24.12	1477.
150	7.24	30.86	24.16	1477.
175	7.24	30.87	24.17	1477.
200	7.25	30.88	24.18	1478.
225	7.27	30.90	24.19	1478.
250	7.27	30.93	24.21	1479.
275	7.28	30.93	24.21	1479.
300	7.28	30.94	24.22	1480.

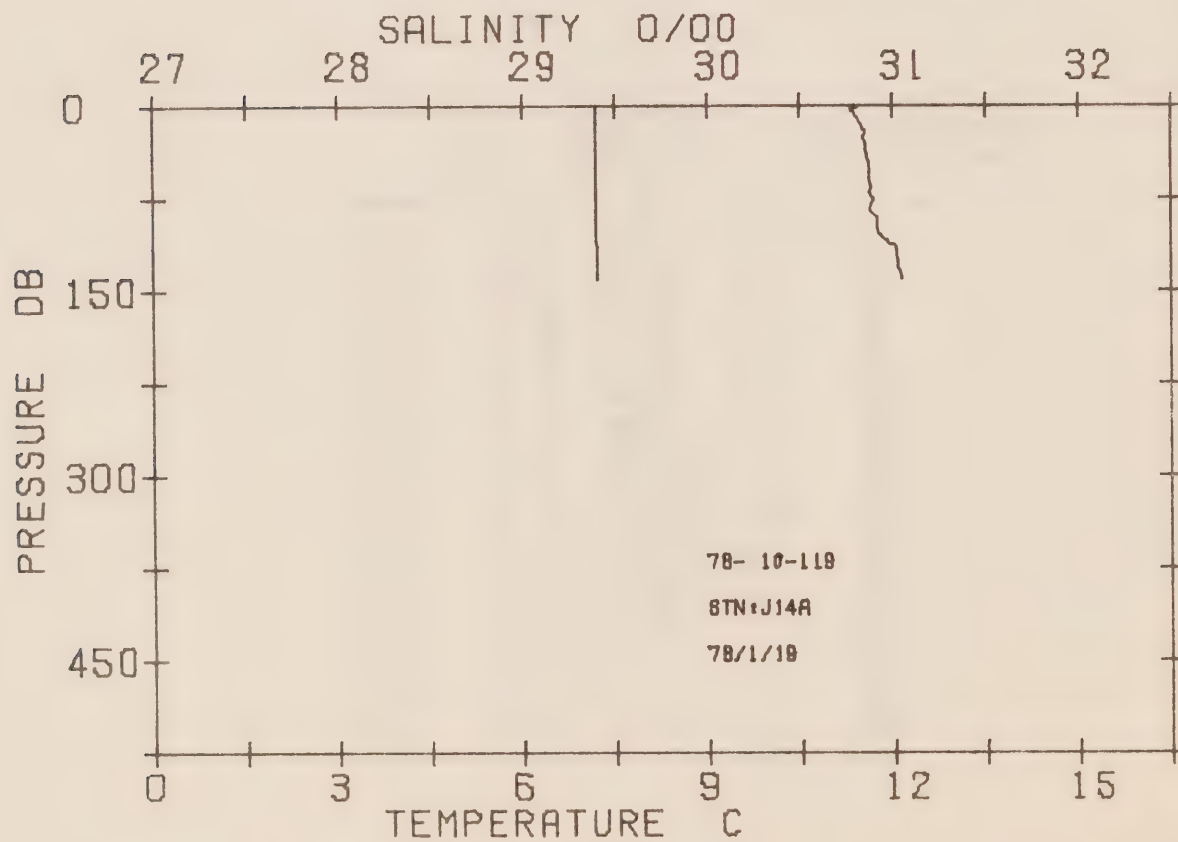
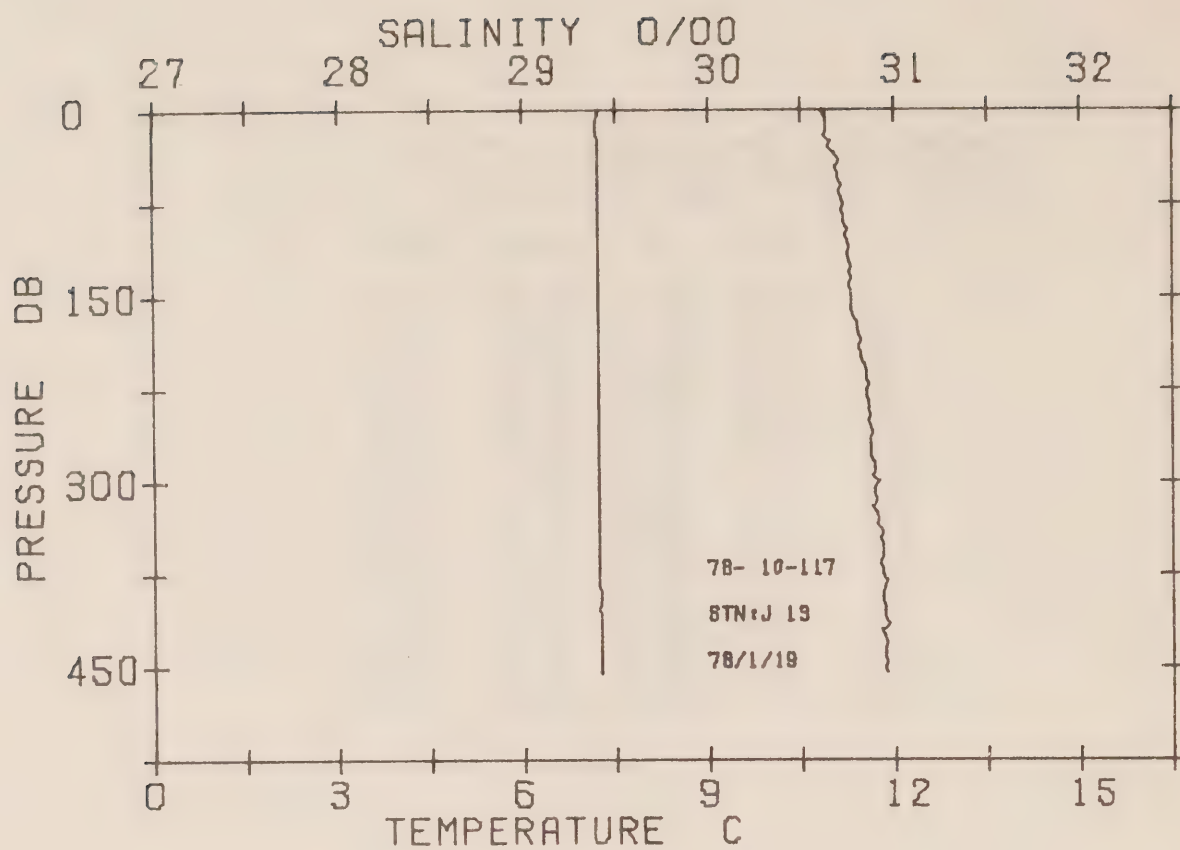


STATION J 11 CRUISE 78-10 CONS #114
 POSITION 50-30.0N 126-30.0W
 DATE 78/ 1/19 TIME 4:27:19 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.20	30.53	23.90	1474.
10	7.20	30.54	23.91	1474.
20	7.21	30.54	23.91	1474.
30	7.23	30.60	23.96	1475.
50	7.24	30.66	24.00	1475.
75	7.23	30.69	24.02	1476.
100	7.24	30.73	24.05	1476.
125	7.23	30.78	24.10	1476.
150	7.23	30.82	24.13	1477.
175	7.23	30.85	24.15	1477.
200	7.23	30.88	24.17	1478.
225	7.23	30.89	24.18	1478.
250	7.23	30.89	24.18	1479.
275	7.24	30.92	24.20	1479.
300	7.25	30.91	24.20	1480.
325	7.25	30.92	24.21	1480.
350	7.26	30.92	24.20	1480.
375	7.26	30.95	24.22	1481.

STATION J 12 CRUISE 78-10 CONS #116
 POSITION 50-31.7N 126-41.0W
 DATE 78/ 1/19 TIME 5:53: 1 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.20	30.55	23.92	1474.
10	7.20	30.56	23.93	1474.
20	7.20	30.55	23.92	1474.
30	7.22	30.60	23.95	1475.
50	7.22	30.73	24.06	1475.
75	7.22	30.75	24.07	1476.
100	7.22	30.80	24.12	1476.
125	7.21	30.86	24.16	1476.
150	7.21	30.86	24.16	1477.
175	7.21	30.88	24.18	1477.
200	7.22	30.88	24.18	1478.
225	7.22	30.89	24.18	1478.
250	7.22	30.88	24.17	1479.
275	7.22	30.90	24.19	1479.
300	7.23	30.91	24.20	1479.
325	7.23	30.90	24.19	1480.
350	7.23	30.91	24.19	1480.
375	7.23	30.94	24.22	1481.
400	7.23	30.91	24.20	1481.
425	7.23	30.94	24.22	1482.
450	7.23	30.94	24.22	1482.
475	7.24	30.96	24.24	1482.

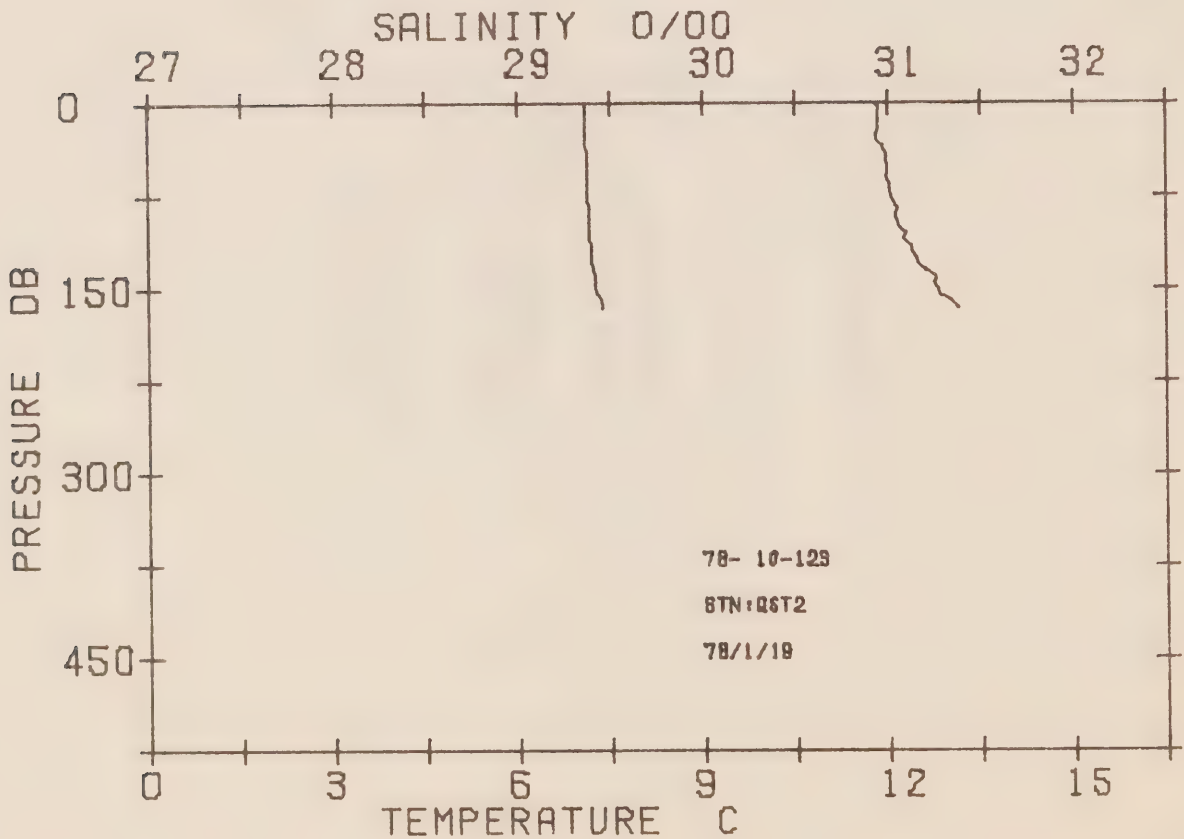
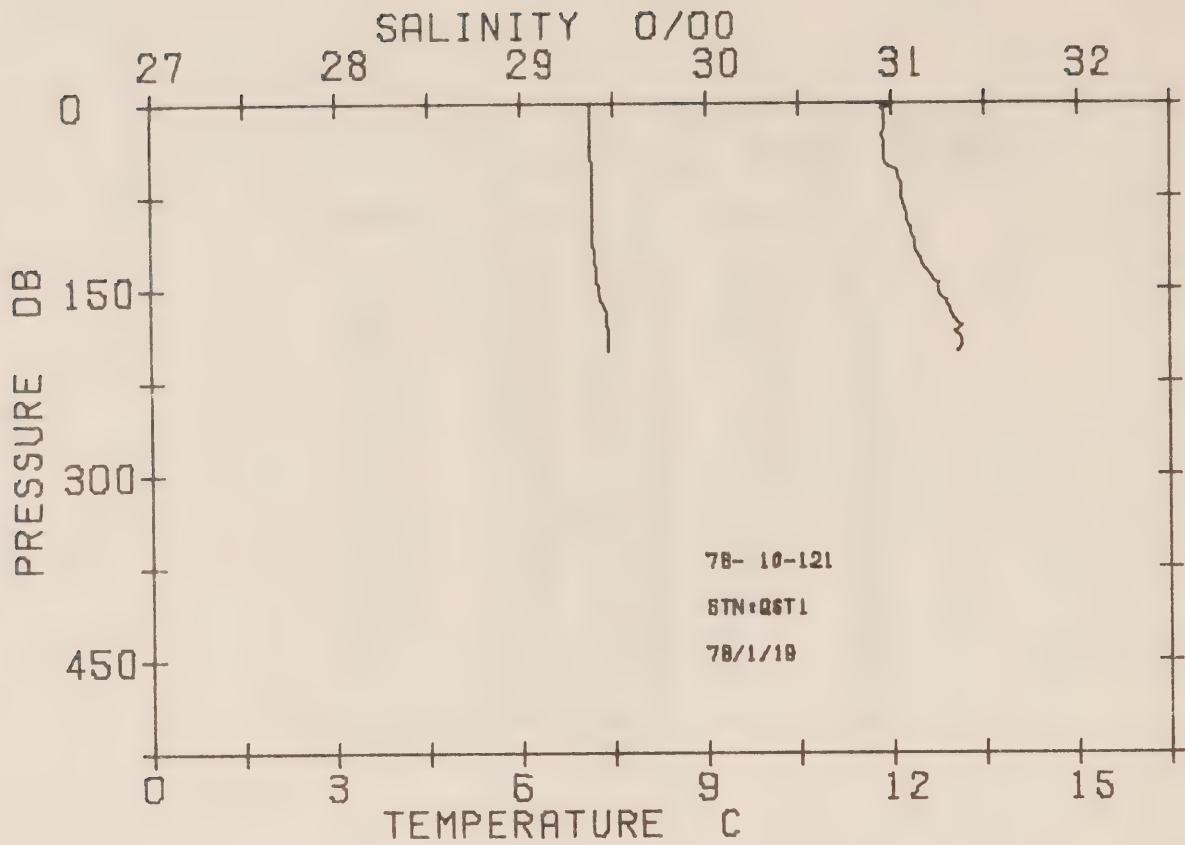


STATION J 13 CRUISE 78-10 CONS #117
 POSITION 50-33.3N 126-47.0W
 DATE 78/ 1/19 TIME 6:40:42 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.21	30.63	23.98	1474.
10	7.20	30.64	23.99	1474.
20	7.20	30.62	23.98	1474.
30	7.21	30.65	24.00	1475.
50	7.21	30.70	24.03	1475.
75	7.21	30.73	24.06	1476.
100	7.21	30.74	24.07	1476.
125	7.21	30.77	24.09	1476.
150	7.21	30.77	24.09	1477.
175	7.21	30.80	24.11	1477.
200	7.21	30.82	24.13	1478.
225	7.21	30.85	24.15	1478.
250	7.22	30.86	24.16	1479.
275	7.22	30.87	24.16	1479.
300	7.22	30.92	24.21	1479.
325	7.23	30.91	24.19	1480.
350	7.23	30.94	24.22	1480.
375	7.23	30.94	24.22	1481.
400	7.24	30.95	24.23	1481.
425	7.24	30.95	24.23	1482.
450	7.24	30.95	24.23	1482.

STATION J14A CRUISE 78-10 CONS #119
 POSITION 50-34.0N 126-52.0W
 DATE 78/ 1/19 TIME 7:53:17 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.18	30.79	24.11	1474.
10	7.19	30.81	24.12	1474.
20	7.19	30.85	24.16	1475.
30	7.19	30.85	24.16	1475.
50	7.19	30.88	24.18	1475.
75	7.19	30.90	24.20	1476.
100	7.20	30.92	24.21	1476.
125	7.21	31.03	24.29	1477.

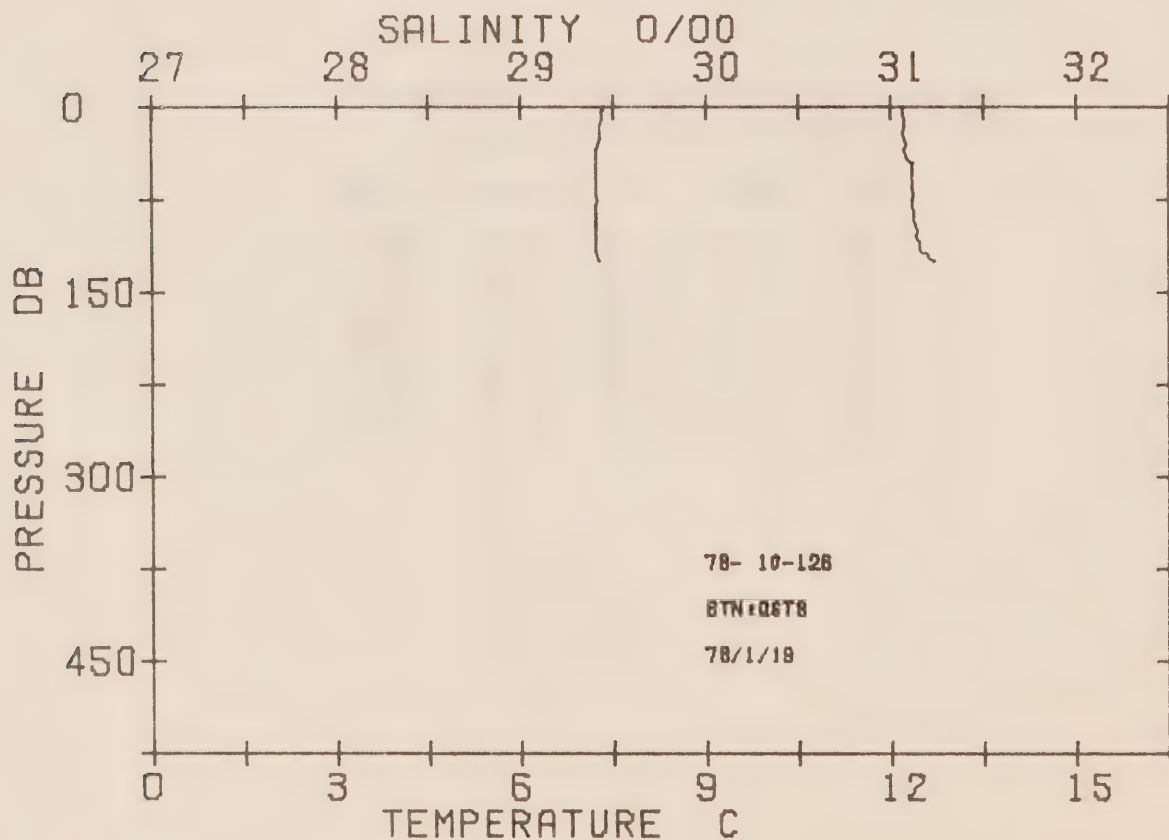
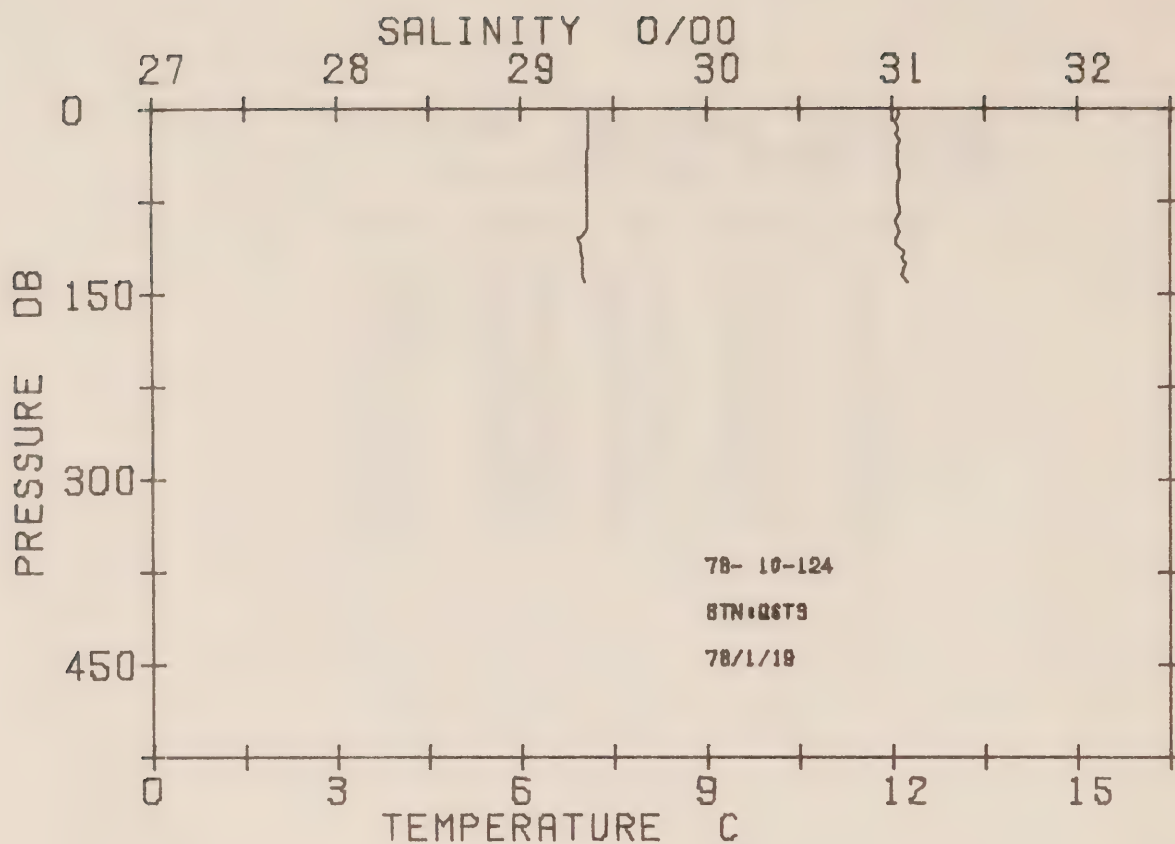


STATION QST1 CRUISE 78-10 CONS #121
 POSITION 50-41.9N 126-55.5W
 DATE 78/ 1/19 TIME 9: 8:23 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.14	30.96	24.25	1474.
10	7.14	30.96	24.25	1474.
20	7.13	30.96	24.25	1475.
30	7.14	30.96	24.25	1475.
50	7.15	30.98	24.27	1475.
75	7.17	31.05	24.31	1476.
100	7.16	31.10	24.35	1476.
125	7.18	31.16	24.40	1477.
150	7.24	31.25	24.46	1478.
175	7.38	31.34	24.52	1479.
200	7.40	31.35	24.52	1479.

STATION QST2 CRUISE 78-10 CONS #123
 POSITION 50-45.0N 127- 8.2W
 DATE 78/ 1/19 TIME 10:21:31 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.08	30.95	24.25	1474.
10	7.08	30.95	24.25	1474.
20	7.08	30.95	24.25	1474.
30	7.08	30.94	24.24	1475.
50	7.14	31.00	24.28	1475.
75	7.14	31.02	24.30	1476.
100	7.17	31.06	24.33	1476.
125	7.20	31.16	24.40	1477.
150	7.26	31.27	24.48	1478.

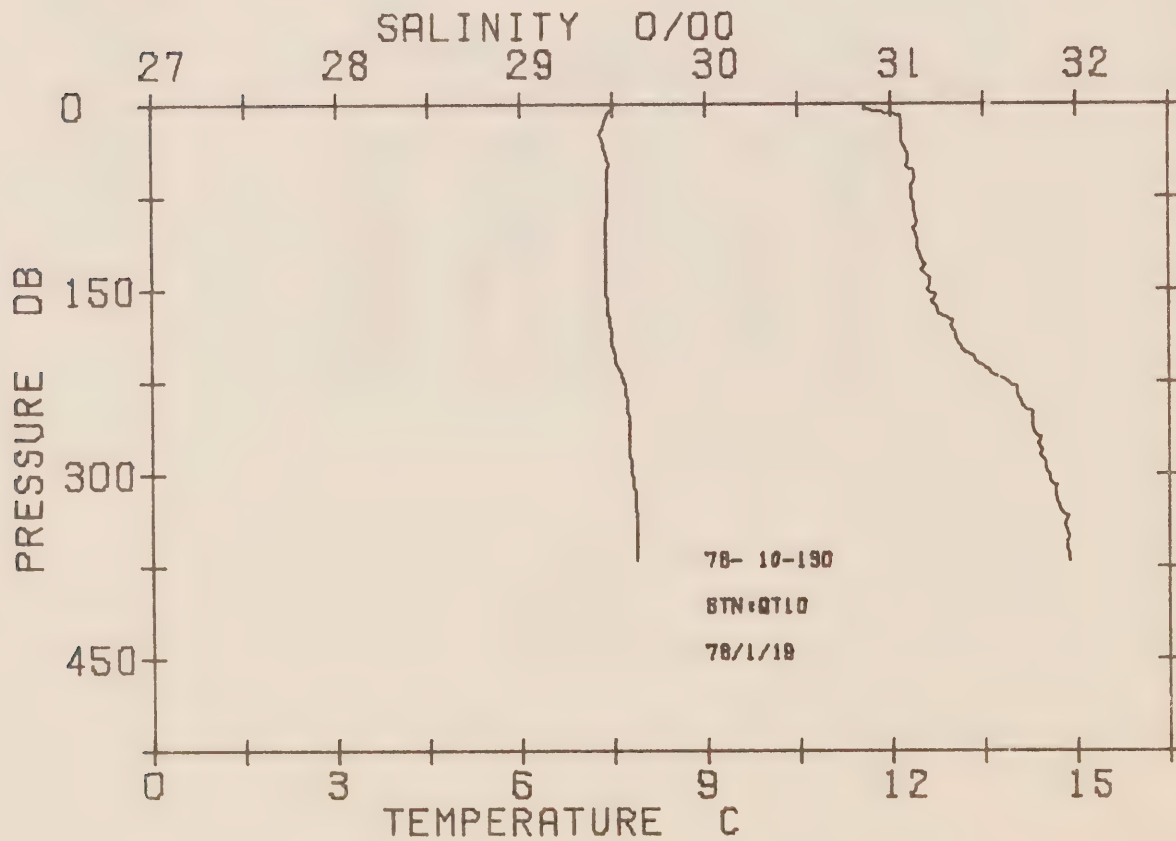
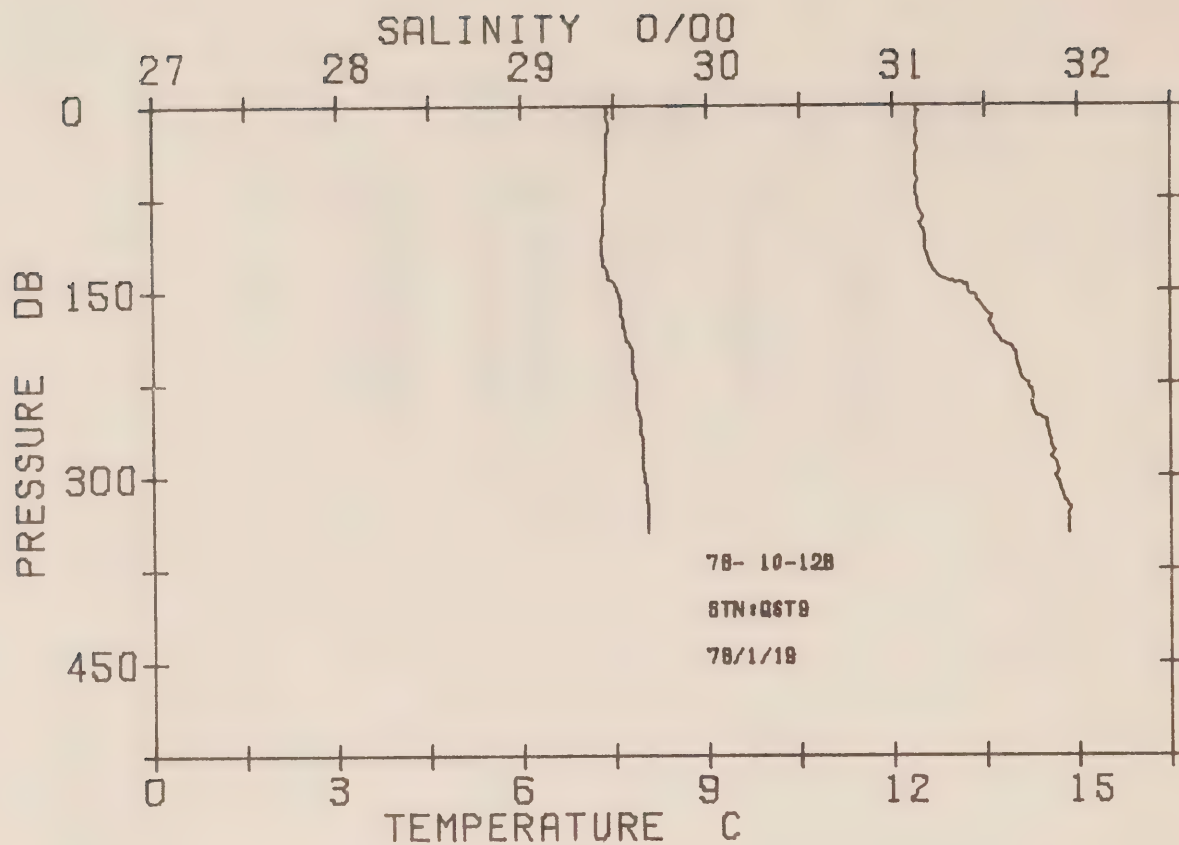


STATION QST3 CRUISE 78-10 CONS #124
 POSITION 50-51.0N 127-20.0W
 DATE 78/ 1/19 TIME 11:19:12 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.08	31.03	24.31	1474.
10	7.08	31.02	24.30	1474.
20	7.08	31.02	24.31	1474.
30	7.08	31.03	24.31	1475.
50	7.07	31.04	24.32	1475.
75	7.06	31.03	24.31	1475.
100	7.04	31.04	24.32	1476.
125	7.00	31.07	24.35	1476.

STATION QST8 CRUISE 78-10 CONS #126
 POSITION 50-50.9N 127-30.0W
 DATE 78/ 1/19 TIME 12:15: 3 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.33	31.06	24.31	1475.
10	7.30	31.07	24.31	1475.
20	7.28	31.06	24.31	1475.
30	7.25	31.08	24.33	1475.
50	7.23	31.11	24.35	1476.
75	7.24	31.11	24.35	1476.
100	7.22	31.15	24.39	1476.
125	7.29	31.23	24.44	1477.

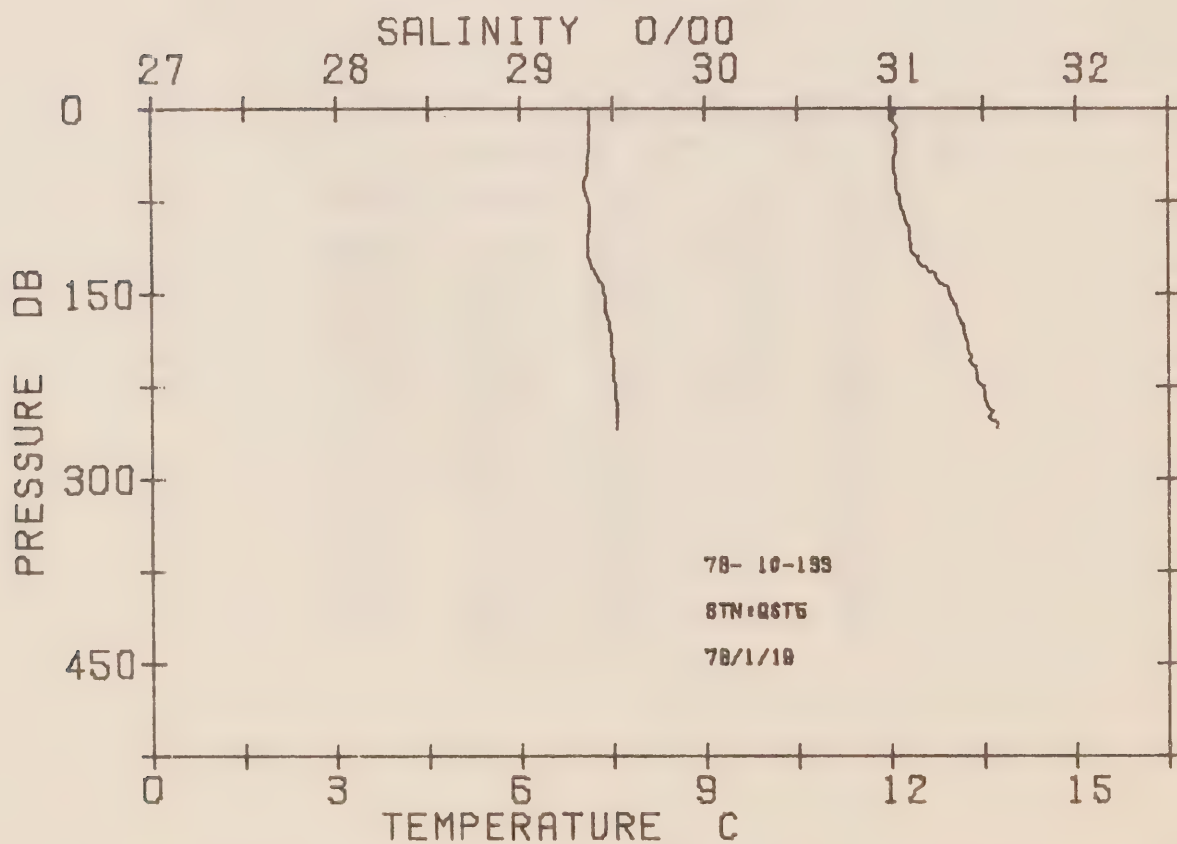
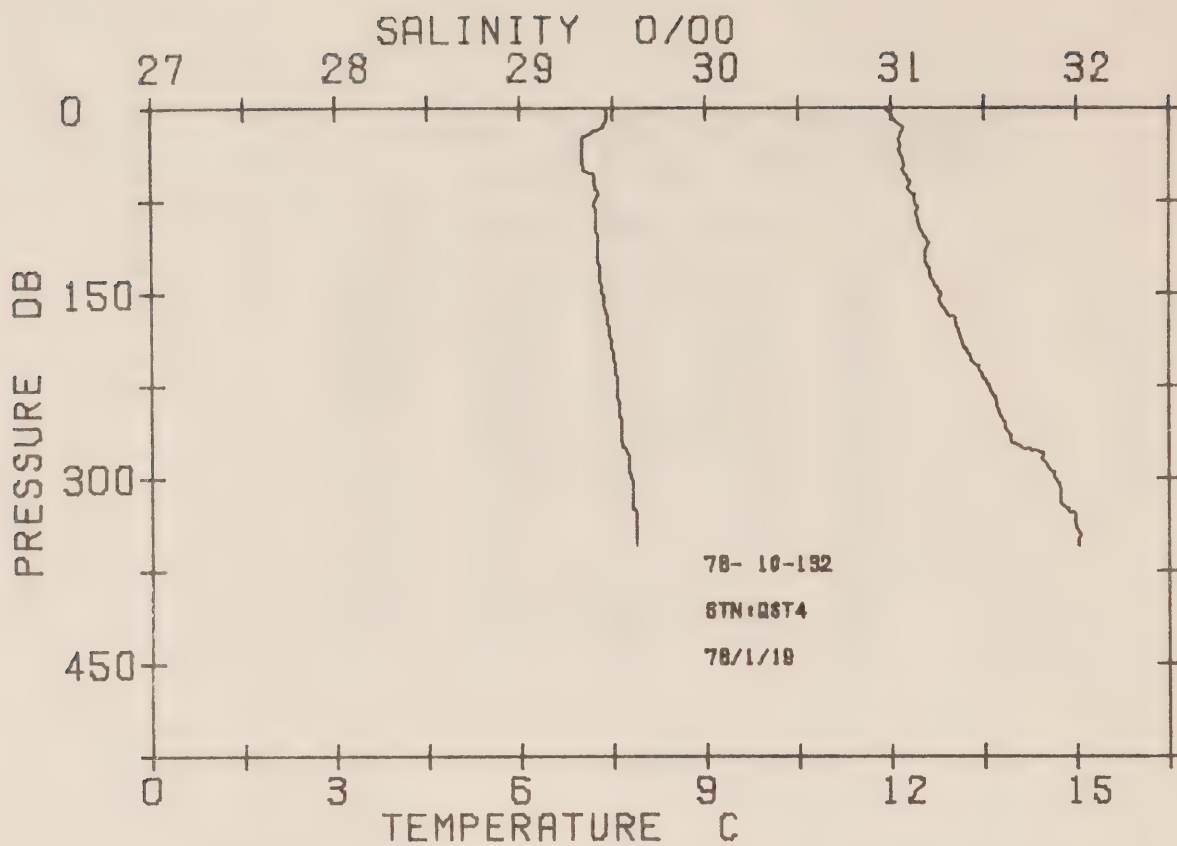


STATION QST9 CRUISE 78-10 CONS #128
 POSITION 50-52.6N 127-35.6W
 DATE 78/ 1/19 TIME 13: 3:12 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.39	31.13	24.35	1476.
10	7.37	31.13	24.35	1476.
20	7.40	31.14	24.35	1476.
30	7.39	31.13	24.35	1476.
50	7.39	31.13	24.35	1476.
75	7.34	31.14	24.36	1477.
100	7.31	31.17	24.39	1477.
125	7.30	31.20	24.41	1477.
150	7.52	31.41	24.55	1479.
175	7.62	31.52	24.62	1480.
200	7.77	31.67	24.72	1481.
225	7.84	31.73	24.76	1482.
250	7.87	31.77	24.78	1482.
275	7.93	31.85	24.84	1483.
300	7.96	31.88	24.86	1484.
325	8.03	31.96	24.91	1484.

STATION QT10 CRUISE 78-10 CONS #130
 POSITION 50-48.4N 127-35.5W
 DATE 78/ 1/19 TIME 14:10:40 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.50	30.85	24.11	1476.
10	7.42	31.06	24.29	1476.
20	7.34	31.06	24.30	1476.
30	7.31	31.06	24.30	1476.
50	7.43	31.08	24.31	1476.
75	7.41	31.11	24.33	1477.
100	7.39	31.13	24.35	1477.
125	7.38	31.17	24.38	1478.
150	7.38	31.20	24.40	1478.
175	7.43	31.33	24.50	1479.
200	7.49	31.40	24.54	1480.
225	7.66	31.64	24.71	1481.
250	7.72	31.76	24.80	1482.
275	7.76	31.79	24.81	1482.
300	7.79	31.85	24.86	1483.
325	7.84	31.91	24.90	1484.
350	7.88	31.96	24.93	1484.

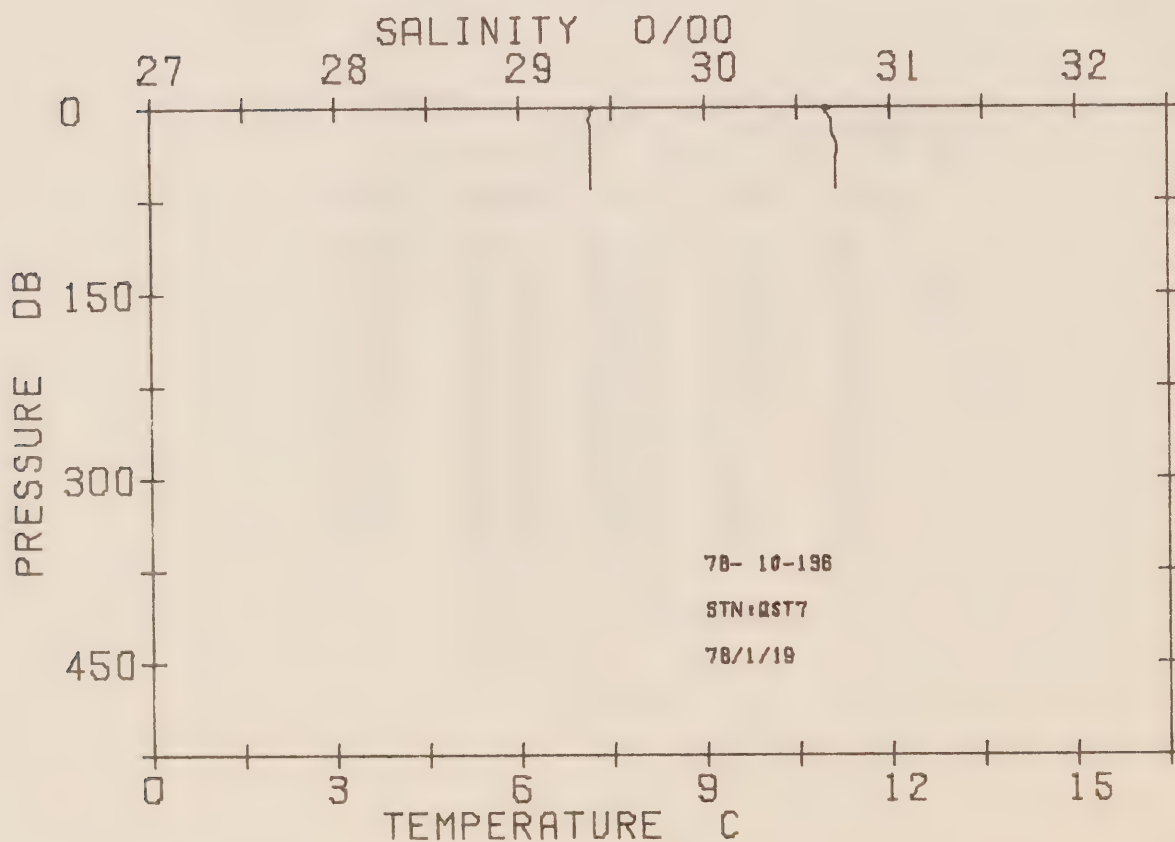
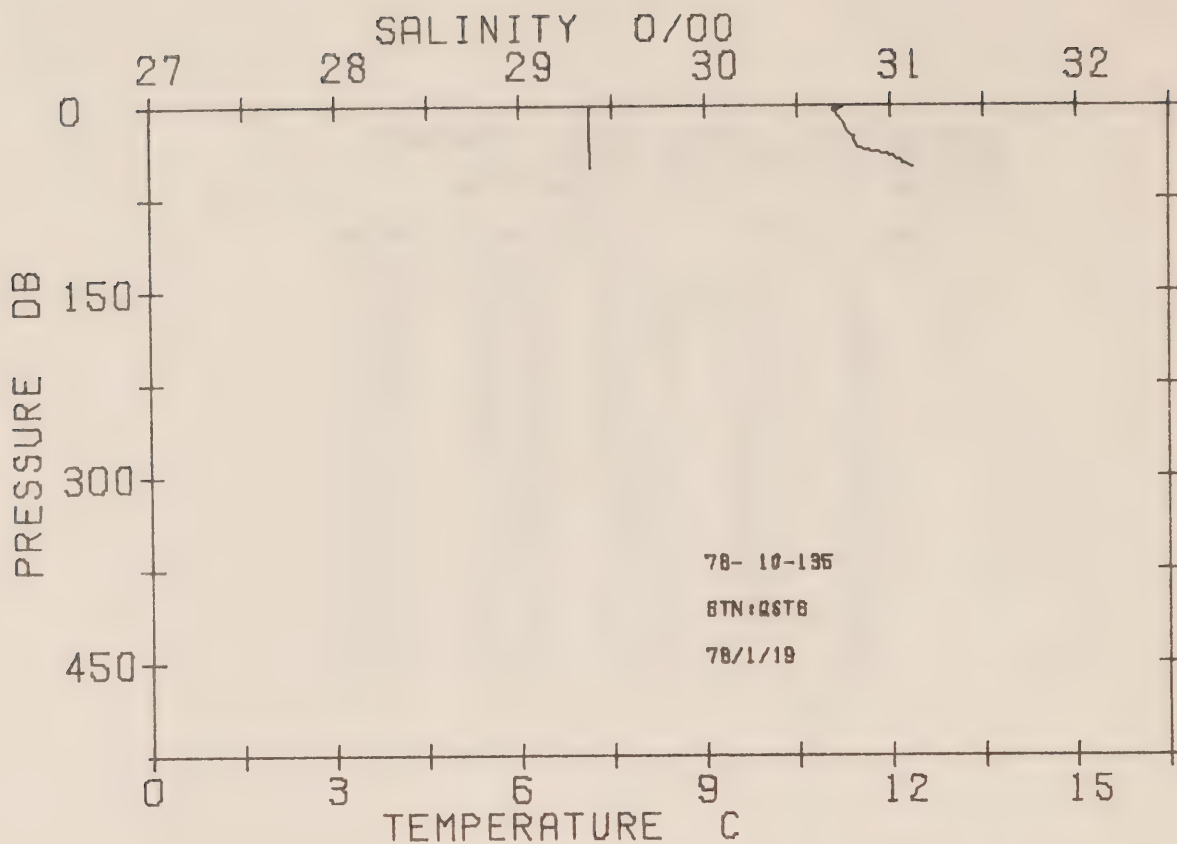


STATION QST4 CRUISE 78-10 CONS #132
 POSITION 50-47.0N 127-29.0W
 DATE 78/ 1/19 TIME 15:28:33 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.42	30.97	24.22	1476.
10	7.41	31.02	24.26	1476.
20	7.18	31.05	24.31	1475.
30	6.99	31.05	24.34	1474.
50	7.03	31.06	24.34	1475.
75	7.21	31.13	24.37	1476.
100	7.22	31.17	24.40	1477.
125	7.26	31.19	24.41	1477.
150	7.32	31.27	24.47	1478.
175	7.42	31.35	24.52	1479.
200	7.49	31.43	24.57	1480.
225	7.57	31.53	24.64	1480.
250	7.60	31.59	24.68	1481.
275	7.67	31.70	24.76	1482.
300	7.78	31.89	24.89	1483.
325	7.82	31.95	24.93	1484.
350	7.87	32.01	24.97	1484.

STATION QST5 CRUISE 78-10 CONS #133
 POSITION 50-45.0N 127-20.0W
 DATE 78/ 1/19 TIME 16:14:47 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.12	31.02	24.30	1474.
10	7.12	31.01	24.29	1474.
20	7.11	31.02	24.30	1475.
30	7.11	31.03	24.31	1475.
50	7.09	31.02	24.30	1475.
75	7.09	31.05	24.33	1475.
100	7.12	31.10	24.36	1476.
125	7.13	31.16	24.41	1477.
150	7.35	31.32	24.51	1478.
175	7.43	31.40	24.56	1479.
200	7.48	31.44	24.58	1480.
225	7.52	31.50	24.62	1480.
250	7.56	31.53	24.64	1481.

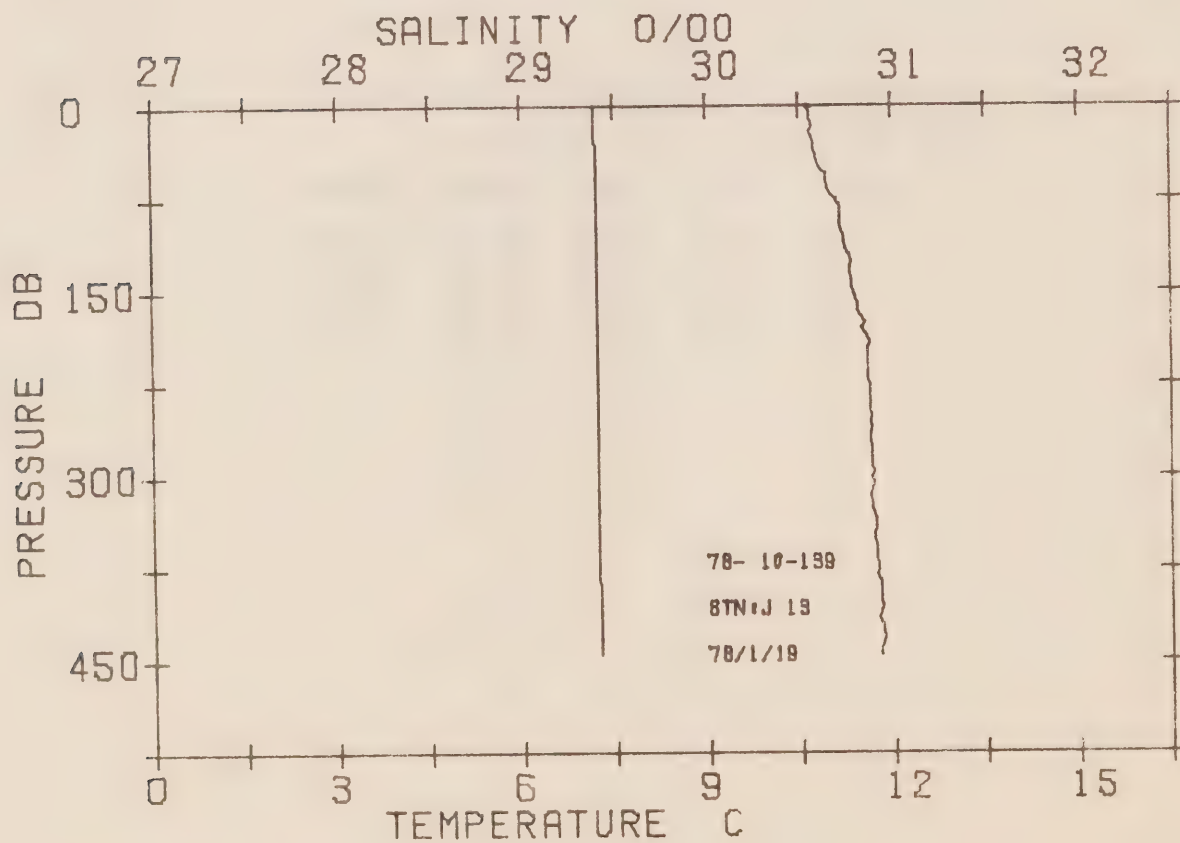
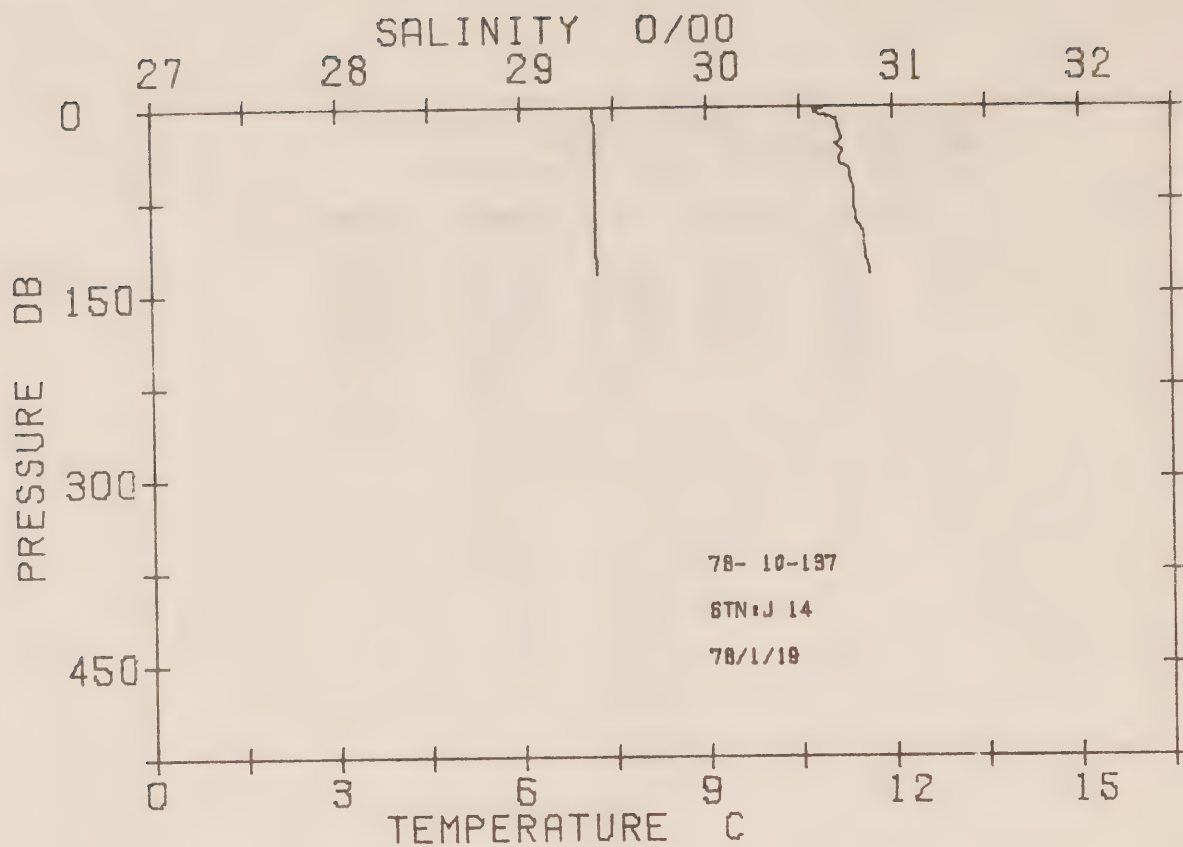


STATION QST6 CRUISE 78-10 CONS #135
 POSITION 50-40.5N 127-13.5W
 DATE 78/ 1/19 TIME 17:16: 9 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	7.15	30.70	24.04	1474.
10	7.12	30.73	24.07	1474.
20	7.12	30.77	24.10	1474.
30	7.13	30.81	24.14	1475.
50	7.16	31.12	24.37	1475.

STATION QST7 CRUISE 78-10 CONS #136
 POSITION 50-37.3N 127- 5.0W
 DATE 78/ 1/19 TIME 18: 0:23 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.16	30.65	24.00	1474.
10	7.14	30.69	24.03	1474.
20	7.15	30.69	24.04	1474.
30	7.15	30.72	24.06	1475.
50	7.16	30.71	24.05	1475.

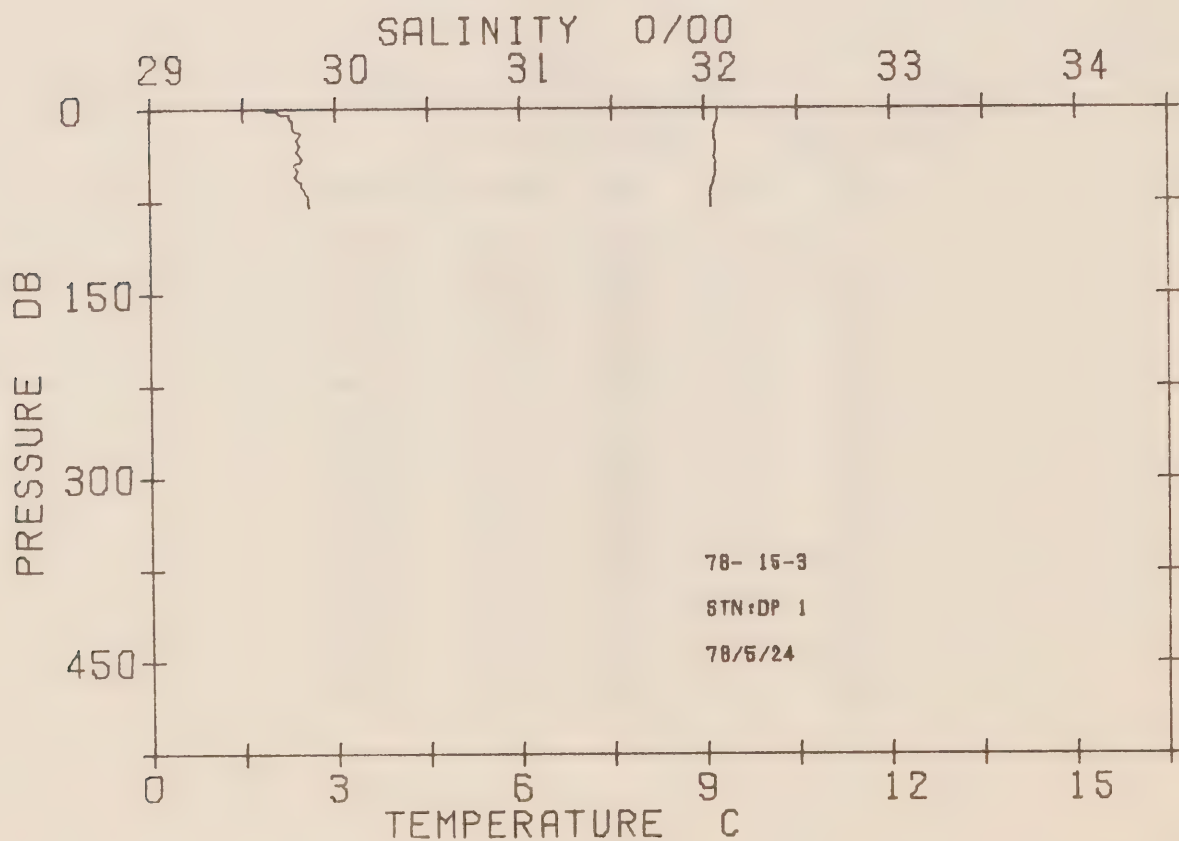
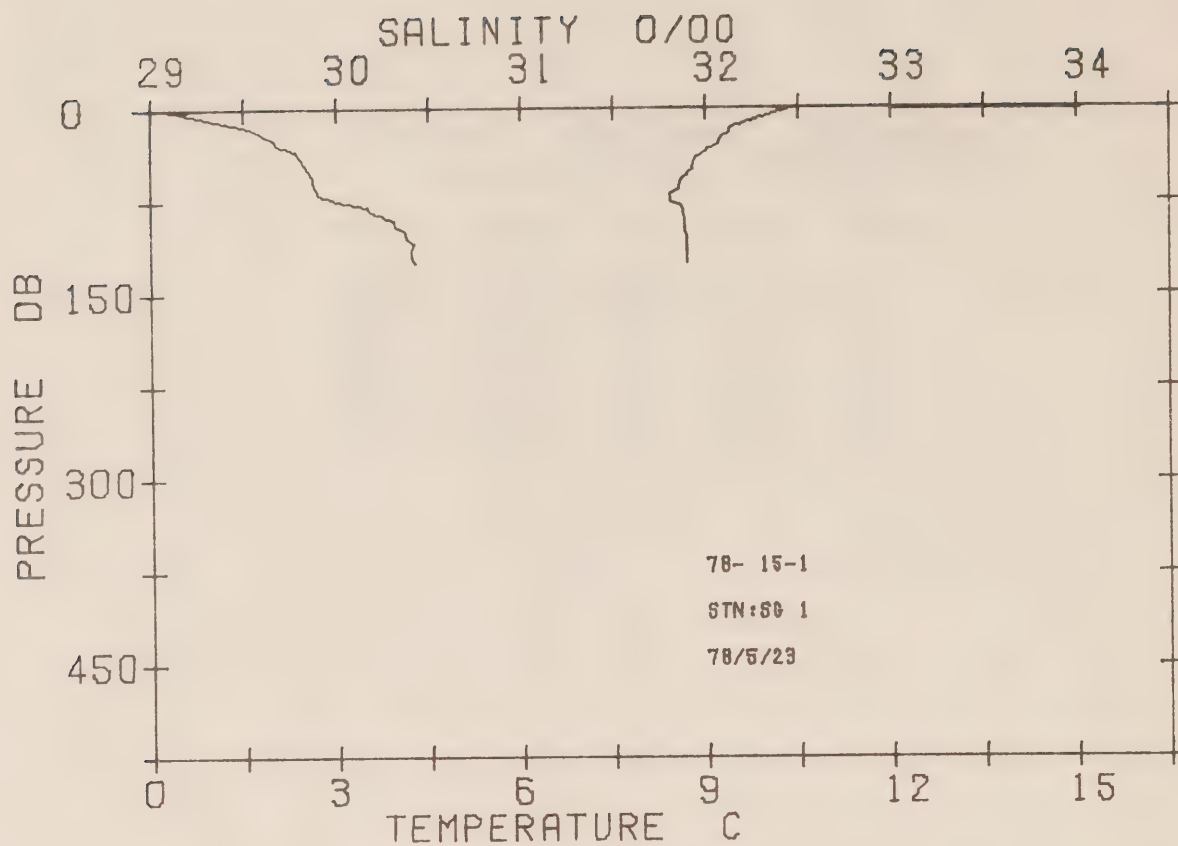


STATION J 14 CRUISE 78-10 CONS #137
 POSITION 50-34.0N 126-52.0W
 DATE 78/ 1/19 TIME 19: 2:35 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.16	30.60	23.96	1474.
10	7.16	30.70	24.05	1474.
20	7.18	30.72	24.05	1474.
30	7.19	30.70	24.04	1475.
50	7.19	30.77	24.09	1475.
75	7.19	30.79	24.11	1476.
100	7.20	30.84	24.14	1476.
125	7.21	30.86	24.16	1476.

STATION J 13 CRUISE 78-10 CONS #139
 POSITION 50-33.3N 126-47.0W
 DATE 78/ 1/19 TIME 19:46:53 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	7.20	30.55	23.92	1474.
10	7.20	30.56	23.93	1474.
20	7.20	30.56	23.93	1474.
30	7.20	30.58	23.95	1475.
50	7.21	30.61	23.97	1475.
75	7.21	30.70	24.04	1475.
100	7.21	30.73	24.06	1476.
125	7.21	30.78	24.10	1476.
150	7.21	30.79	24.10	1477.
175	7.22	30.85	24.15	1477.
200	7.22	30.86	24.16	1478.
225	7.22	30.87	24.17	1478.
250	7.22	30.89	24.19	1479.
275	7.23	30.89	24.18	1479.
300	7.23	30.89	24.18	1479.
325	7.23	30.89	24.18	1480.
350	7.23	30.90	24.19	1480.
375	7.23	30.92	24.21	1481.
400	7.24	30.93	24.21	1481.
425	7.24	30.94	24.22	1482.

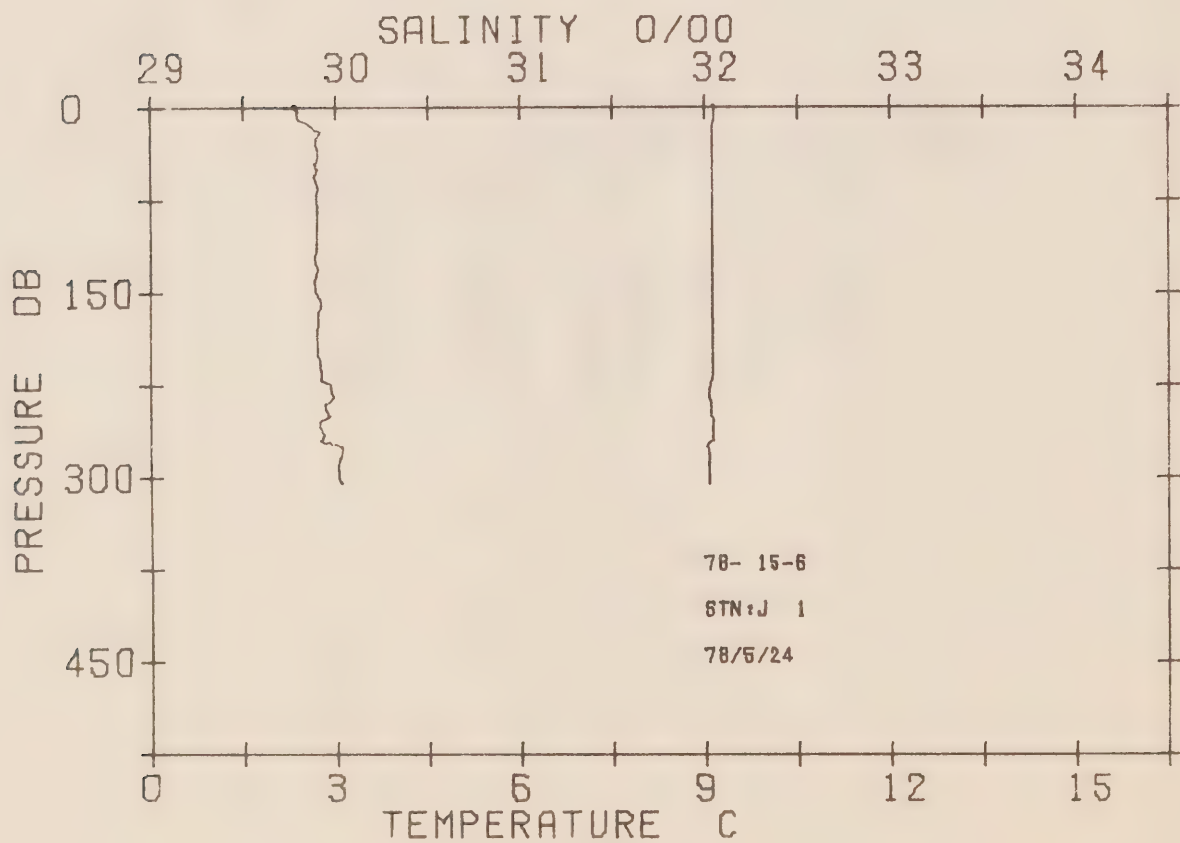
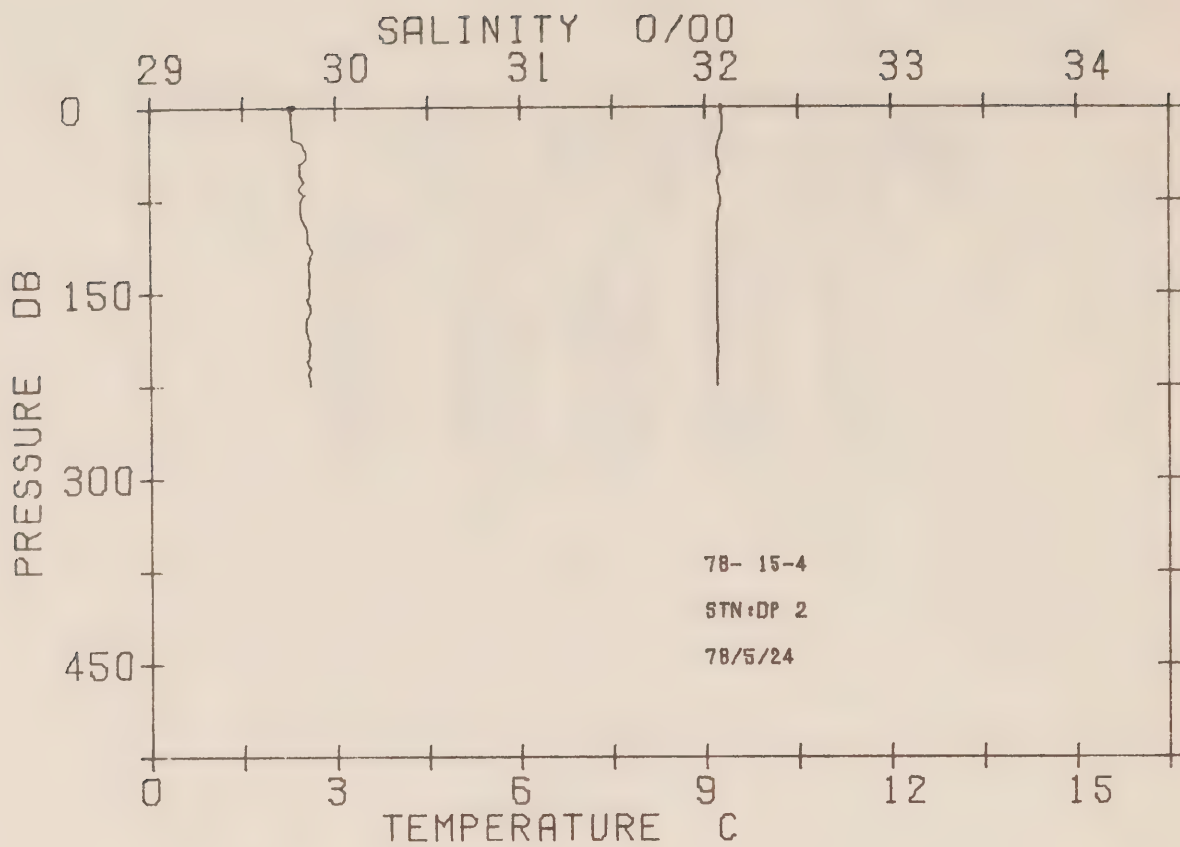


STATION SG 1 CRUISE 78-15 CONS # 1
 POSITION 49-55.0N 125- 5.5W
 DATE 78/ 5/23 TIME 23:28:30 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	29.03	22.23	12.54	1531.
10	29.03	22.23	12.54	1531.
20	9.38	29.60	22.87	1482.
30	9.22	29.69	22.96	1481.
50	8.79	29.85	23.16	1480.
75	8.45	30.01	23.33	1479.
100	8.67	30.38	23.59	1481.
125	8.68	30.43	23.62	1482.

STATION DP 1 CRUISE 78-15 CONS # 3
 POSITION 50- 5.1N 125-16.4W
 DATE 78/ 5/24 TIME 1: 5:36 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.22	29.63	22.92	1481.
10	9.21	29.77	23.03	1481.
20	9.16	29.81	23.07	1481.
30	9.18	29.81	23.06	1481.
50	9.18	29.80	23.05	1481.
75	9.09	29.85	23.11	1482.

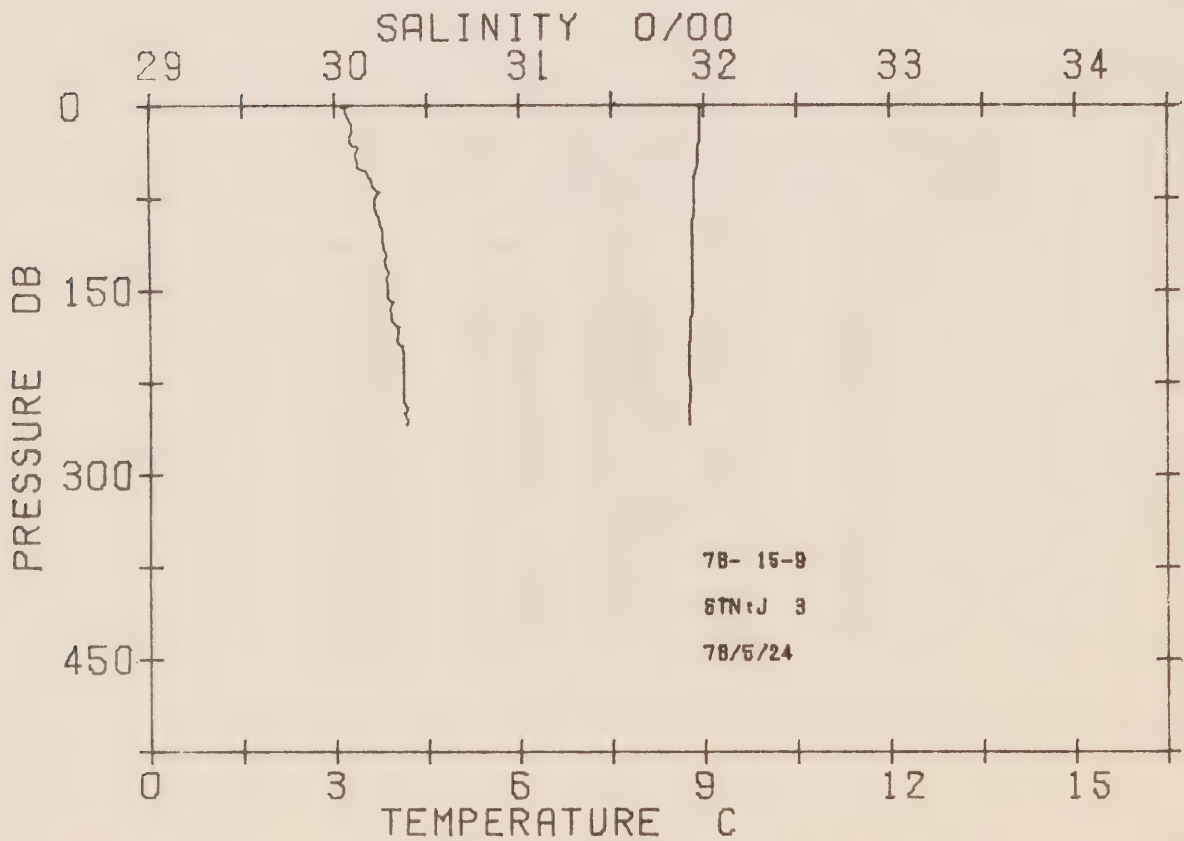
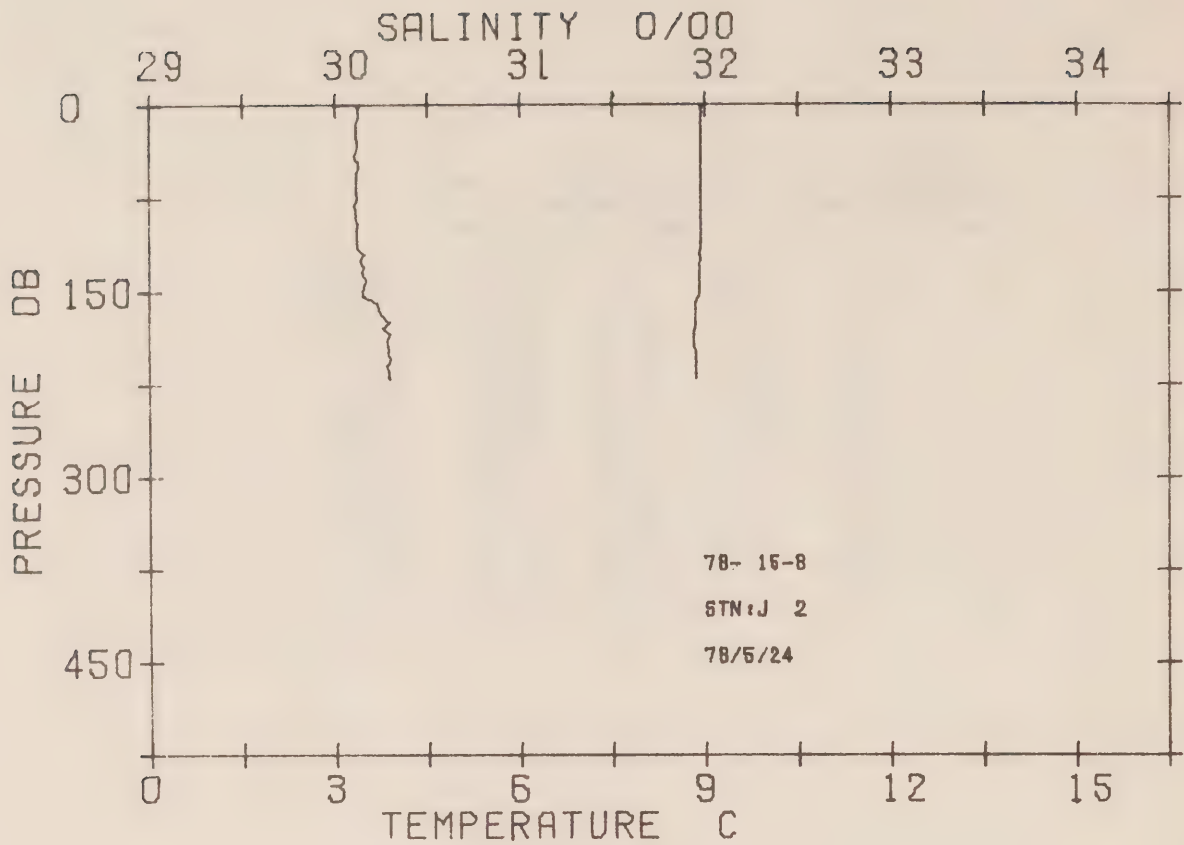


STATION DP 2 CRUISE 78-15 CONS # 4
 POSITION 50-14.7N 125-30.0W
 DATE 78/ 5/24 TIME 2:27:46 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.27	29.76	23.01	1481.
10	9.27	29.76	23.01	1481.
20	9.27	29.77	23.02	1481.
30	9.21	29.82	23.07	1481.
50	9.22	29.81	23.05	1482.
75	9.24	29.81	23.05	1482.
100	9.20	29.85	23.09	1482.
125	9.19	29.85	23.09	1483.
150	9.20	29.86	23.10	1483.
175	9.20	29.84	23.08	1484.
200	9.21	29.86	23.09	1484.
225	9.20	29.86	23.10	1485.

STATION J 1 CRUISE 78-15 CONS # 6
 POSITION 50-20.7N 125-25.0W
 DATE 78/ 5/24 TIME 3:44: 7 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.15	29.79	23.05	1481.
10	9.15	29.80	23.06	1481.
20	9.11	29.92	23.15	1481.
30	9.11	29.90	23.14	1481.
50	9.12	29.91	23.15	1481.
75	9.11	29.90	23.14	1482.
100	9.12	29.90	23.14	1482.
125	9.12	29.90	23.14	1483.
150	9.13	29.90	23.14	1483.
175	9.12	29.91	23.15	1483.
200	9.11	29.91	23.15	1484.
225	9.08	29.97	23.20	1484.
250	9.08	29.97	23.20	1485.
275	9.04	30.03	23.25	1485.
300	9.05	30.02	23.24	1485.

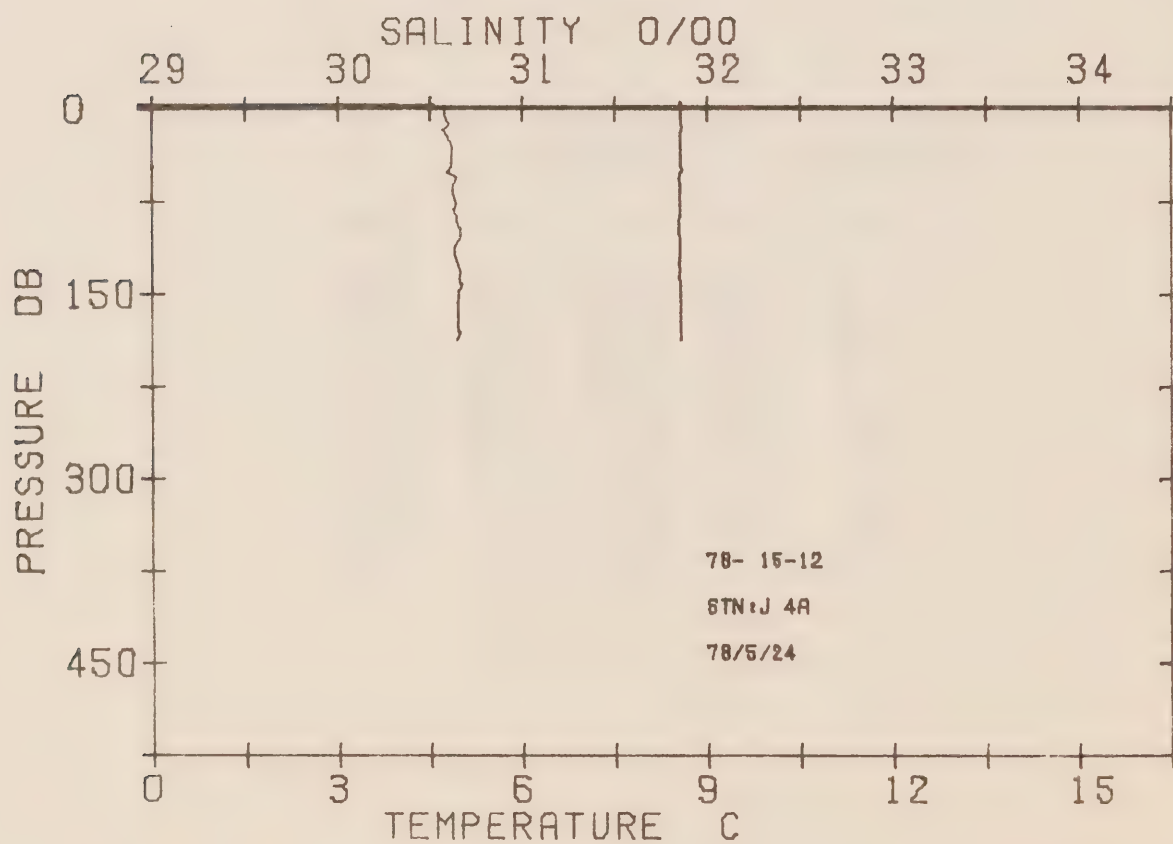
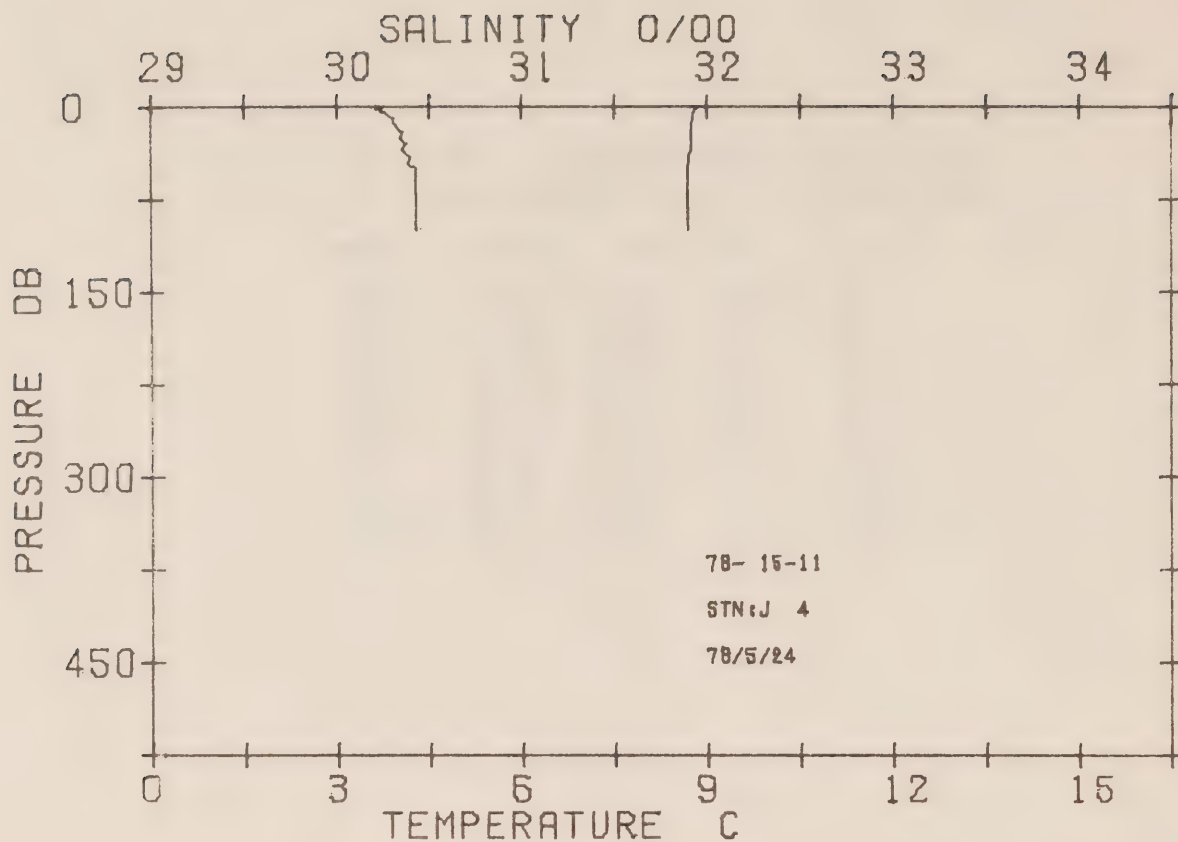


STATION J 2 CRUISE 78-15 CONS # 8
 POSITION 50-22.2N 125-33.5W
 DATE 78/ 5/24 TIME 5:25:54 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.94	30.03	23.27	1480.
10	8.94	30.13	23.34	1480.
20	8.94	30.11	23.33	1481.
30	8.94	30.12	23.34	1481.
50	8.94	30.12	23.34	1481.
75	8.94	30.12	23.34	1481.
100	8.94	30.11	23.33	1482.
125	8.93	30.14	23.35	1482.
150	8.92	30.15	23.37	1483.
175	8.83	30.29	23.49	1483.
200	8.83	30.29	23.49	1483.

STATION J 3 CRUISE 78-15 CONS # 9
 POSITION 50-22.2N 125-39.0W
 DATE 78/ 5/24 TIME 5:59:32 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.95	30.07	23.30	1480.
10	8.94	30.07	23.30	1480.
20	8.93	30.09	23.31	1480.
30	8.93	30.08	23.31	1481.
50	8.91	30.12	23.34	1481.
75	8.84	30.22	23.43	1481.
100	8.82	30.26	23.46	1482.
125	8.81	30.27	23.47	1482.
150	8.81	30.29	23.49	1482.
175	8.79	30.31	23.51	1483.
200	8.76	30.37	23.56	1483.
225	8.77	30.37	23.56	1484.
250	8.76	30.38	23.57	1484.

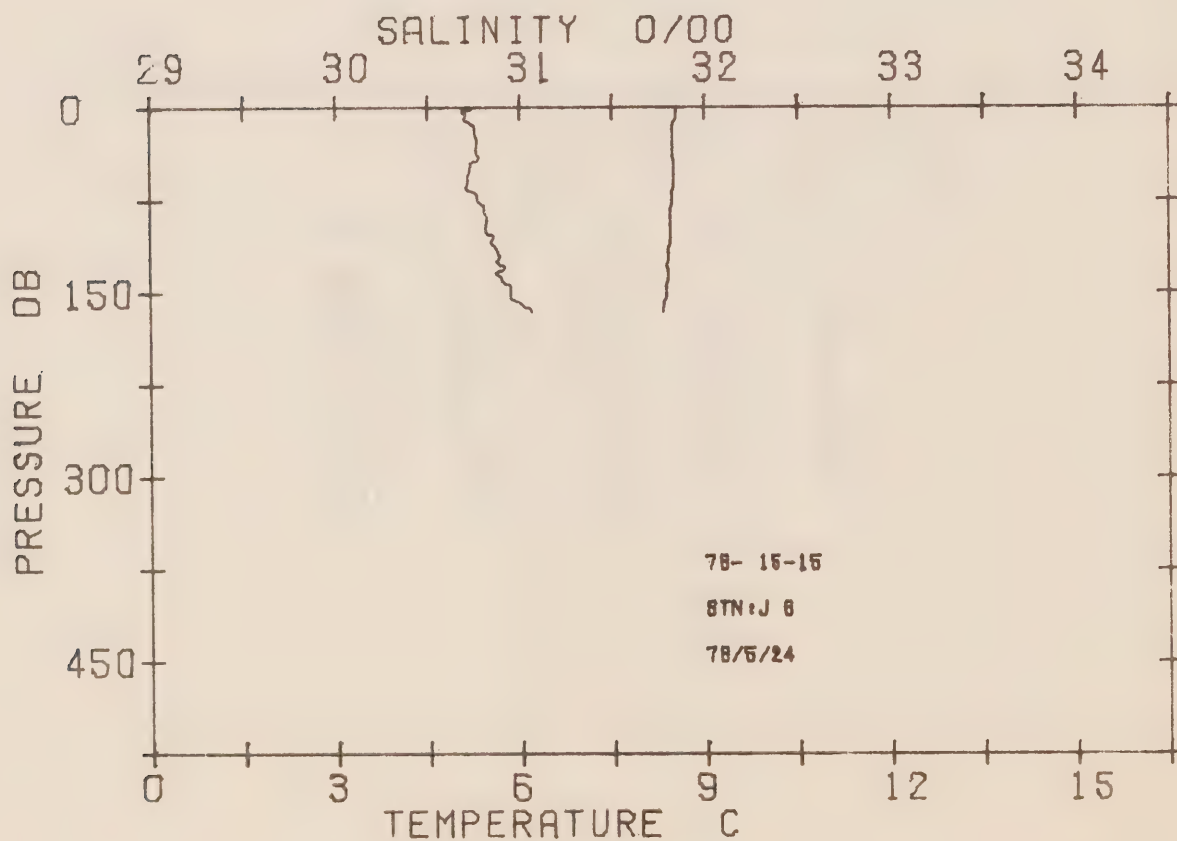
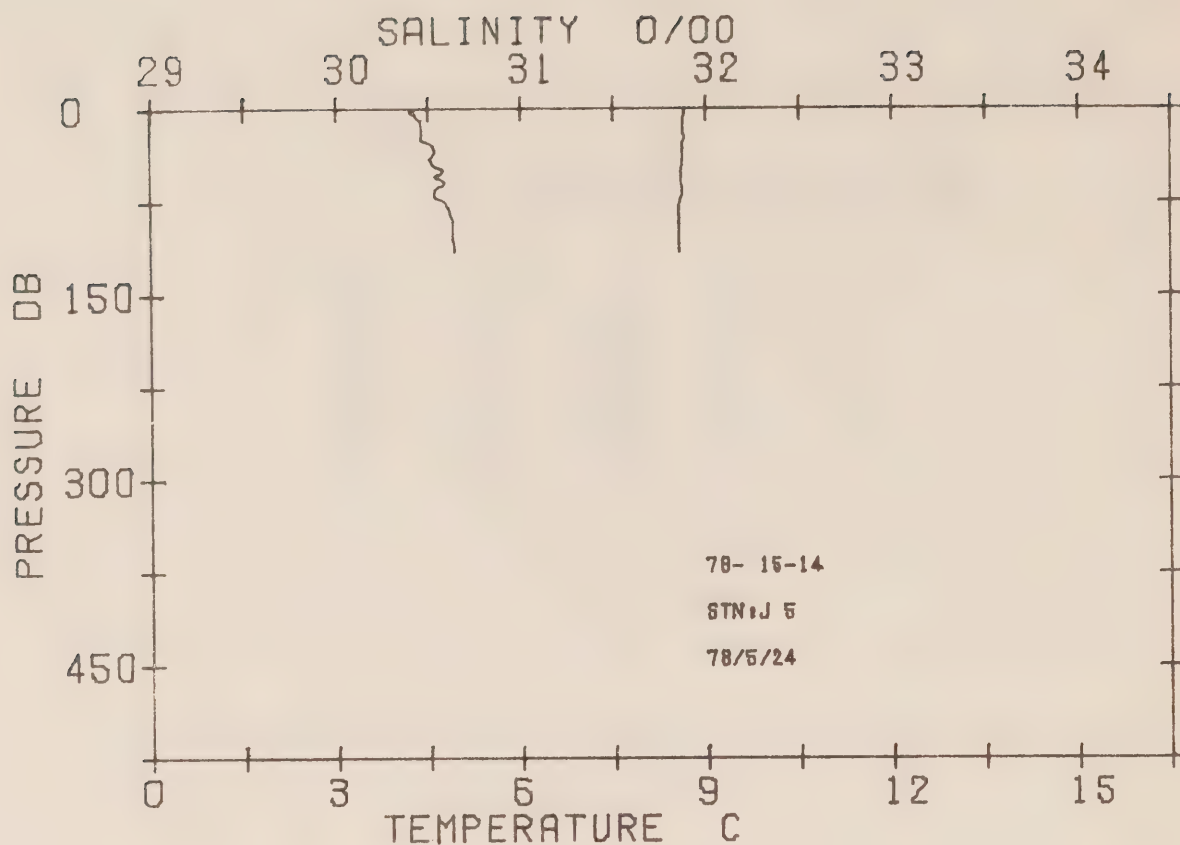


STATION J 4 CRUISE 78-15 CONS # 11
 POSITION 50-22.7N 125-47.0W
 DATE 78/ 5/24 TIME 7: 1: 8 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.83	30.24	23.45	1480.
10	8.78	30.30	23.50	1480.
20	8.75	30.35	23.54	1480.
30	8.74	30.37	23.57	1480.
50	8.70	30.43	23.61	1480.
75	8.70	30.44	23.63	1481.
100	8.69	30.44	23.63	1481.

STATION J 4A CRUISE 78-15 CONS # 12
 POSITION 50-23.5N 125-53.4W
 DATE 78/ 5/24 TIME 7:42: 9 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.58	22.52	17.47	1469.
10	8.57	30.58	23.75	1480.
20	8.58	30.57	23.75	1480.
30	8.56	30.61	23.78	1480.
50	8.56	30.61	23.78	1480.
75	8.55	30.64	23.80	1481.
100	8.54	30.67	23.83	1481.
125	8.55	30.65	23.81	1481.
150	8.55	30.66	23.81	1482.
175	8.56	30.66	23.82	1482.

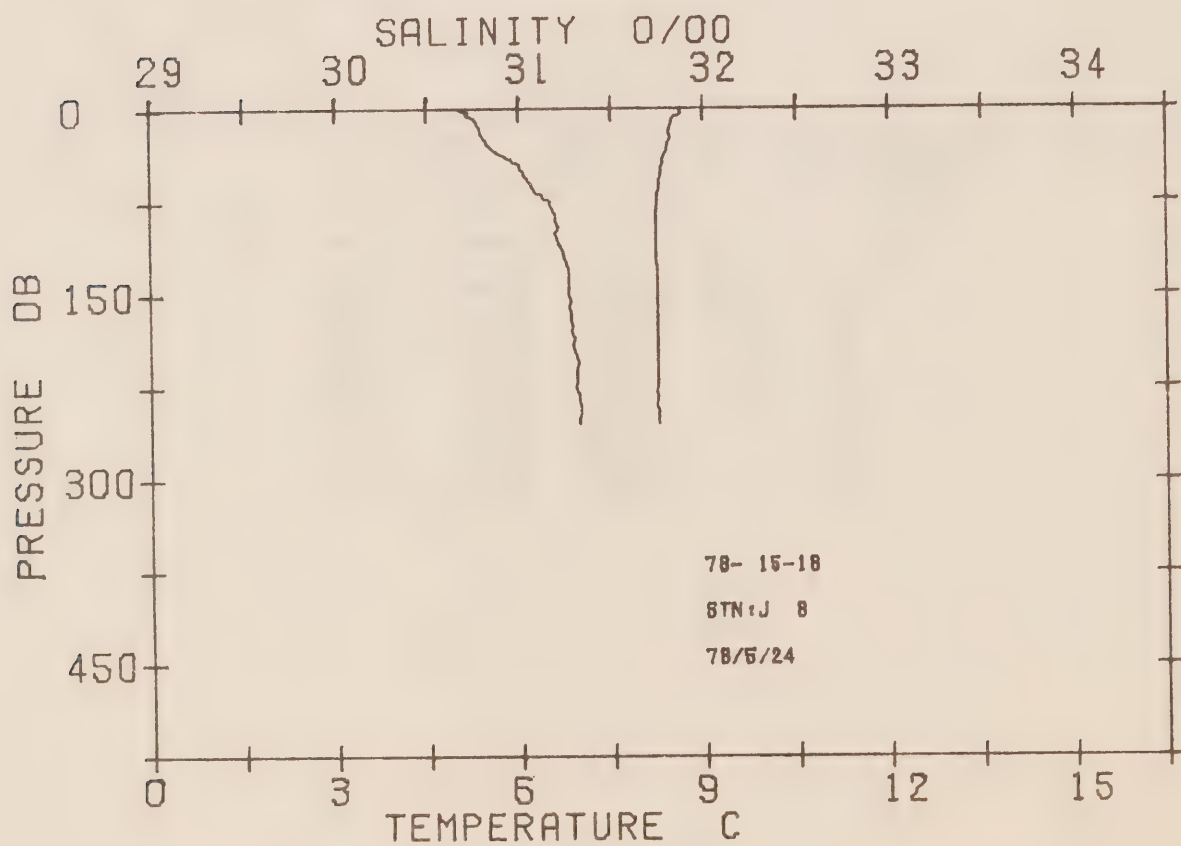
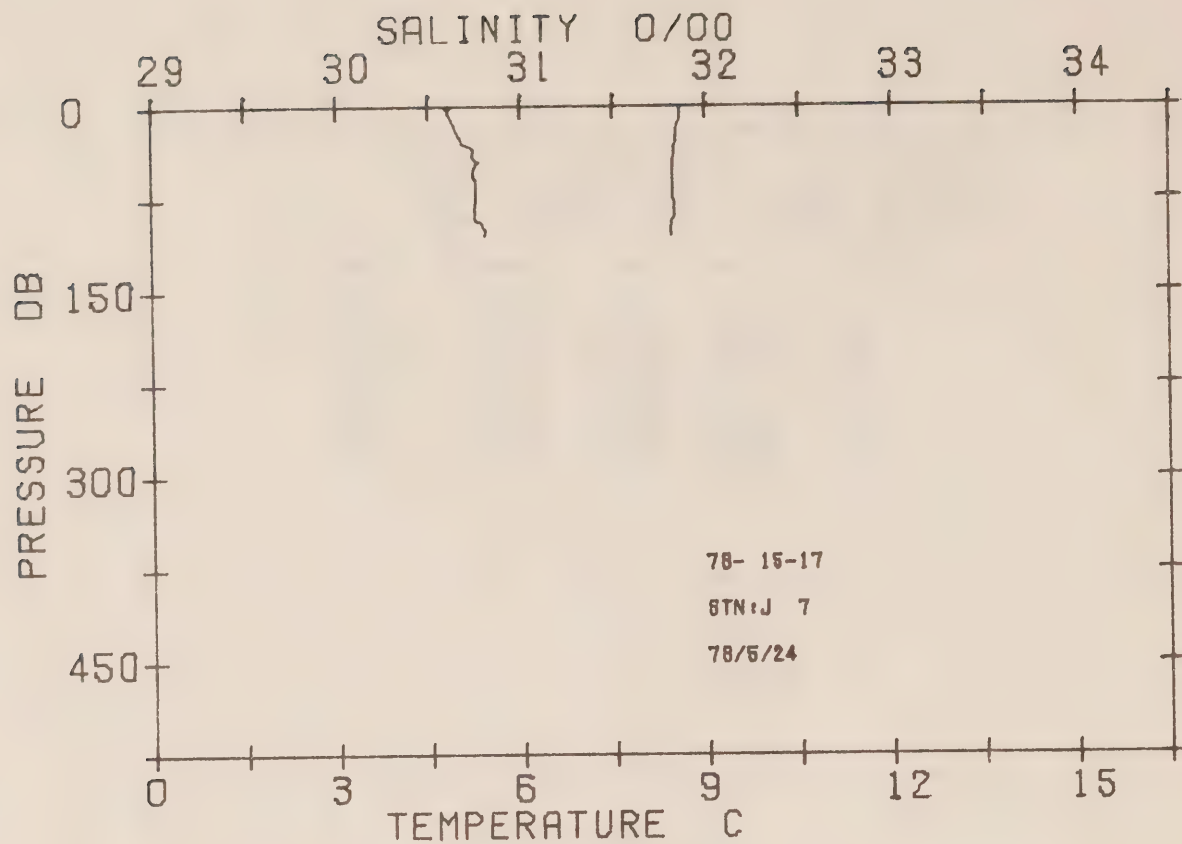


STATION J 5 CRUISE 78-15 CONS # 14
 POSITION 50-24.5N 125-56.8W
 DATE 78/ 5/24 TIME 8:27:33 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.67	30.43	23.62	1480.
10	8.64	30.46	23.65	1480.
20	8.64	30.47	23.65	1480.
30	8.61	30.53	23.71	1480.
50	8.59	30.58	23.75	1480.
75	8.58	30.59	23.76	1481.
100	8.55	30.64	23.81	1481.

STATION J 6 CRUISE 78-15 CONS # 15
 POSITION 50-26.4N 126- .7W
 DATE 78/ 5/24 TIME 8:54:17 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.54	30.71	23.86	1479.
10	8.53	30.70	23.85	1480.
20	8.47	30.76	23.91	1480.
30	8.47	30.77	23.92	1480.
50	8.50	30.73	23.88	1480.
75	8.47	30.77	23.92	1480.
100	8.45	30.81	23.95	1481.
125	8.42	30.87	24.00	1481.
150	8.37	30.95	24.07	1482.

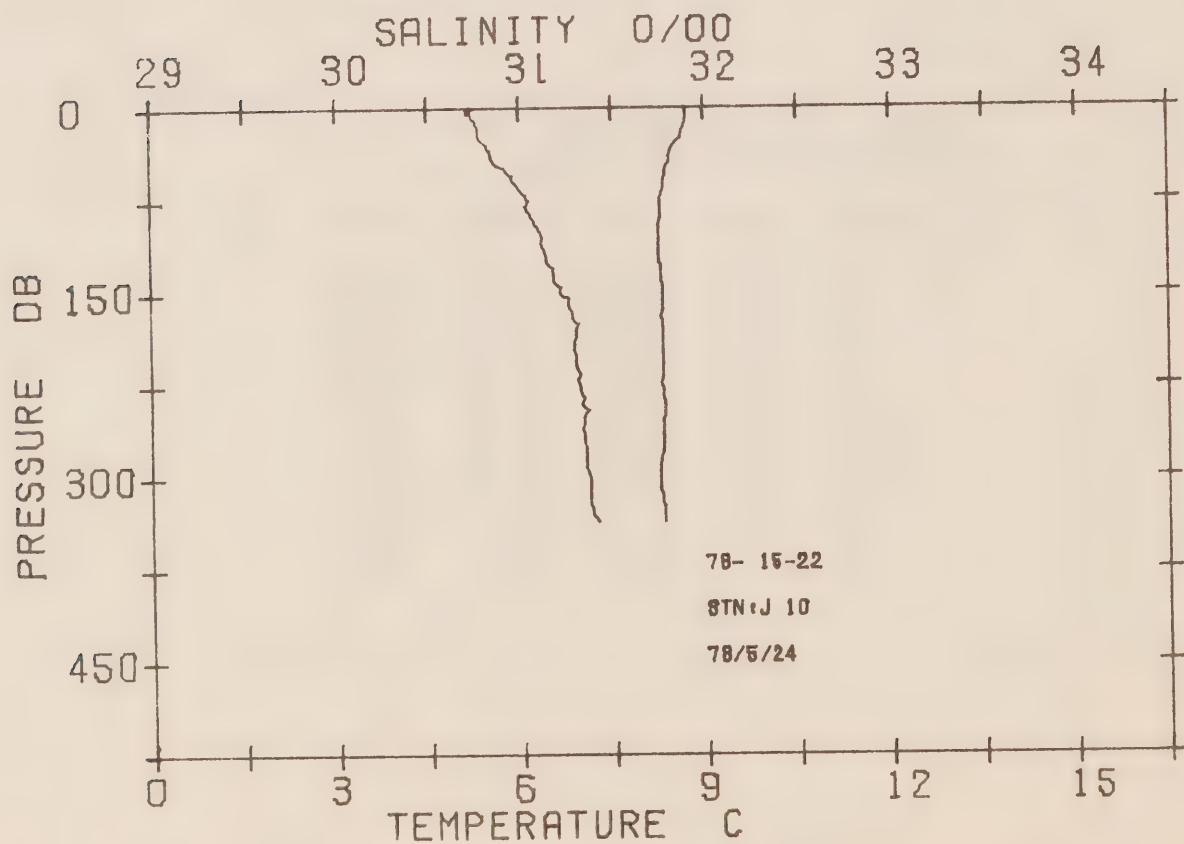
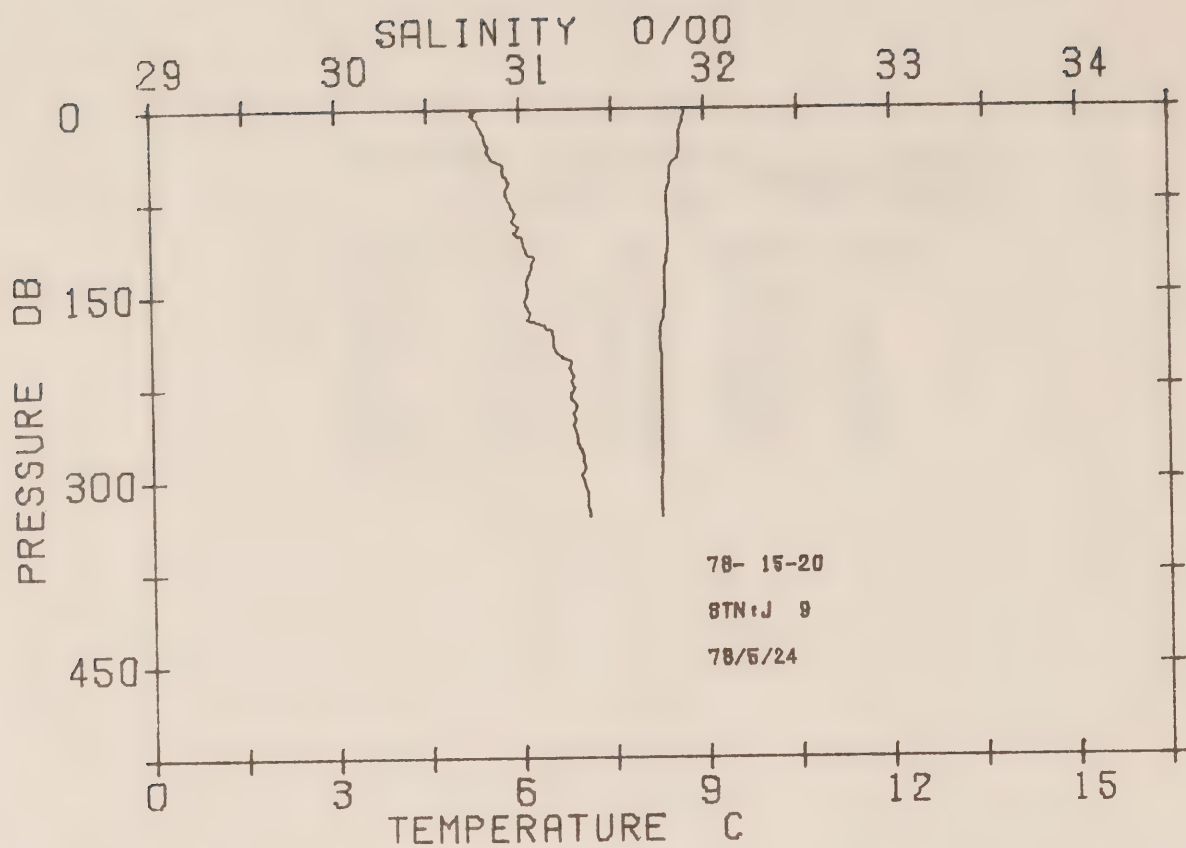


STATION J 7 CRUISE 78-15 CONS # 17
 POSITION 50-26.9N 126- 2.1W
 DATE 78/ 5/24 TIME 9:47: 4 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.60	30.60	23.76	1480.
10	8.59	30.62	23.78	1480.
20	8.54	30.66	23.82	1480.
30	8.54	30.69	23.85	1480.
50	8.48	30.75	23.90	1480.
75	8.48	30.76	23.90	1480.
100	8.45	30.81	23.95	1481.

STATION J 8 CRUISE 78-15 CONS # 18
 POSITION 50-27.6N 126- 3.4W
 DATE 78/ 5/24 TIME 18:13:35 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.64	30.68	23.82	1480.
10	8.50	30.77	23.91	1479.
20	8.45	30.80	23.94	1480.
30	8.45	30.84	23.97	1480.
50	8.31	31.02	24.13	1480.
75	8.24	31.17	24.26	1480.
100	8.23	31.20	24.29	1481.
125	8.23	31.26	24.33	1481.
150	8.24	31.27	24.34	1481.
175	8.26	31.29	24.35	1482.
200	8.24	31.31	24.37	1482.
225	8.24	31.30	24.37	1483.
250	8.24	31.32	24.38	1483.

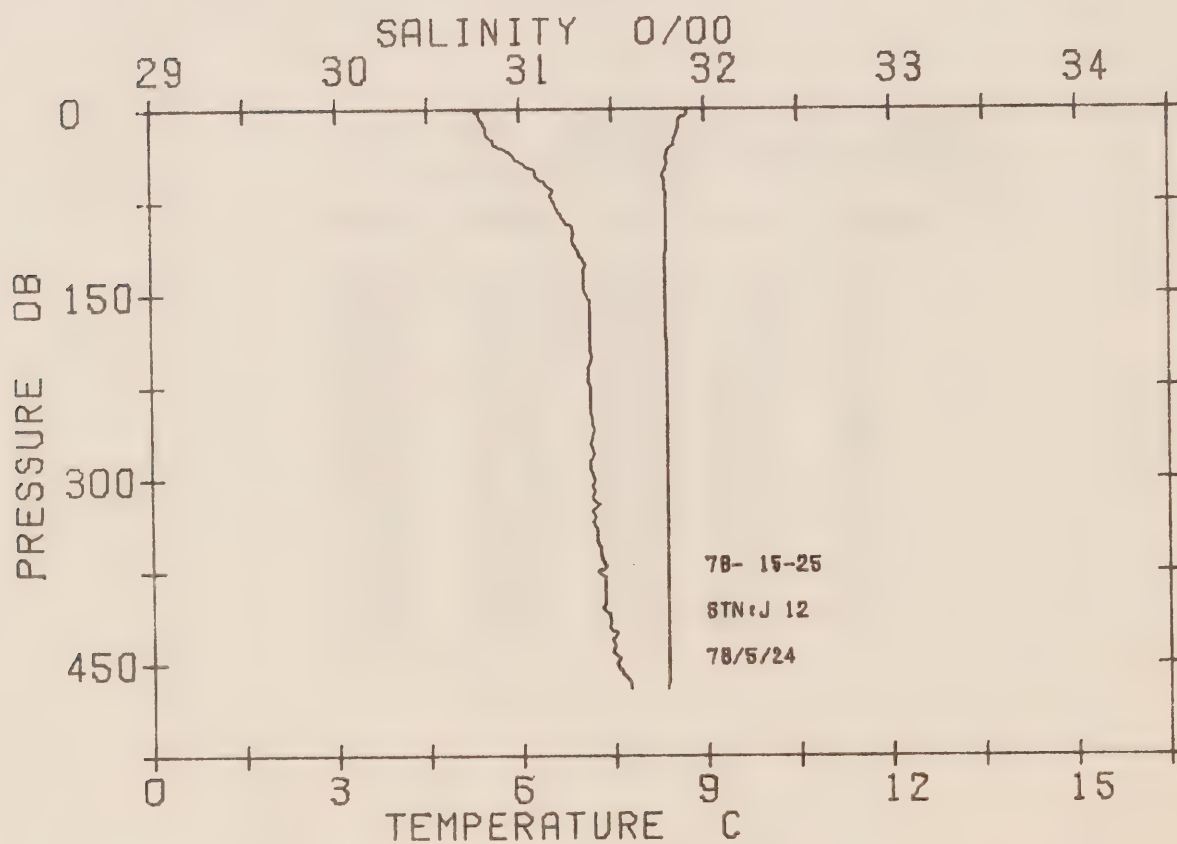
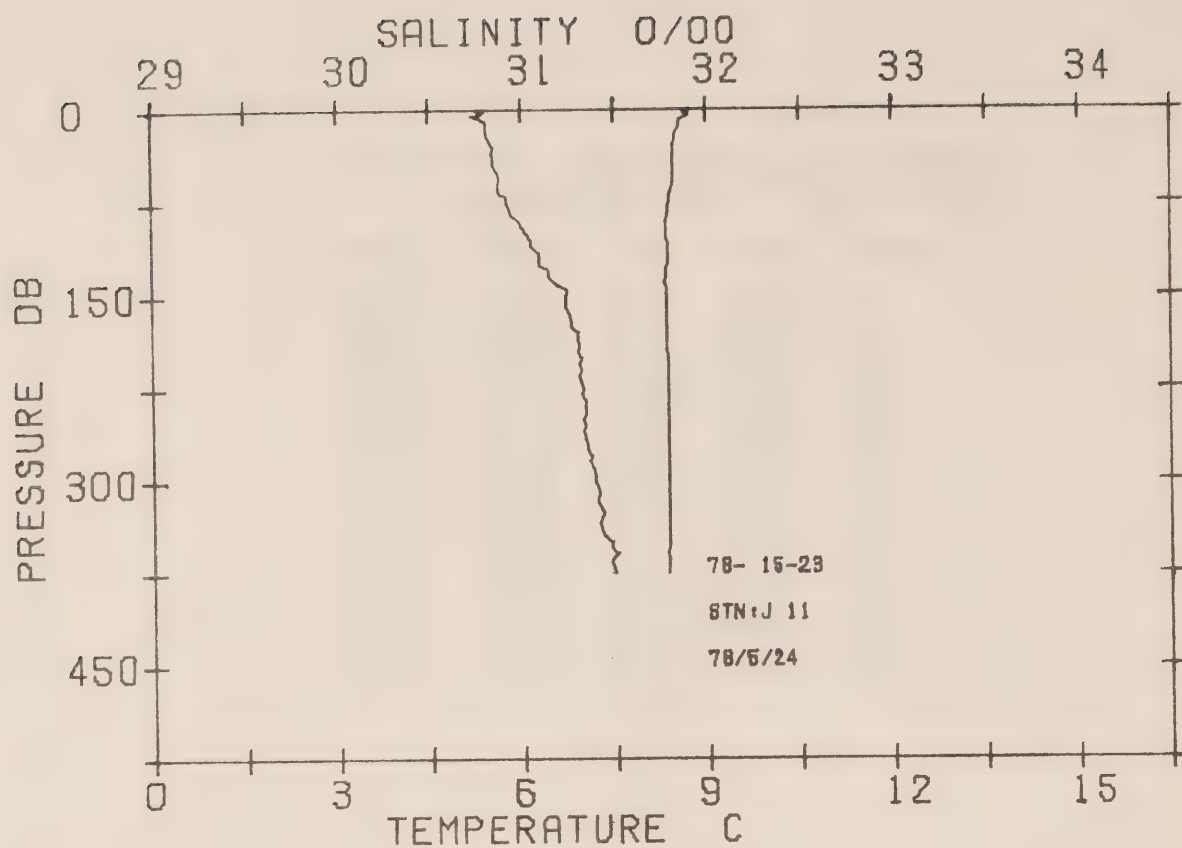


STATION J 9 CRUISE 78-15 CONS # 20
 POSITION 50-28.5N 126-10.7W
 DATE 78/ 5/24 TIME 19:26:59 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.68	30.76	23.88	1480.
10	8.65	30.77	23.89	1480.
20	8.60	30.81	23.93	1480.
30	8.60	30.83	23.94	1480.
50	8.45	30.91	24.03	1480.
75	8.37	30.95	24.07	1480.
100	8.41	30.97	24.08	1481.
125	8.37	31.06	24.16	1481.
150	8.33	31.03	24.14	1481.
175	8.28	31.12	24.22	1482.
200	8.27	31.22	24.29	1482.
225	8.27	31.29	24.35	1483.
250	8.29	31.29	24.35	1483.
275	8.29	31.32	24.37	1484.
300	8.24	31.33	24.39	1484.
325	8.24	31.36	24.41	1484.

STATION J 10 CRUISE 78-15 CONS # 22
 POSITION 50-29.7N 126-18.7W
 DATE 78/ 5/24 TIME 20:42:39 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.72	30.72	23.84	1480.
10	8.71	30.76	23.87	1480.
20	8.67	30.78	23.90	1480.
30	8.52	30.82	23.95	1480.
50	8.39	30.93	24.05	1480.
75	8.29	31.05	24.16	1480.
100	8.26	31.11	24.21	1480.
125	8.25	31.15	24.25	1481.
150	8.30	31.22	24.30	1482.
175	8.30	31.31	24.37	1482.
200	8.31	31.30	24.35	1483.
225	8.29	31.32	24.37	1483.
250	8.34	31.34	24.38	1484.
275	8.30	31.35	24.39	1484.
300	8.25	31.38	24.42	1484.
325	8.30	31.39	24.42	1485.

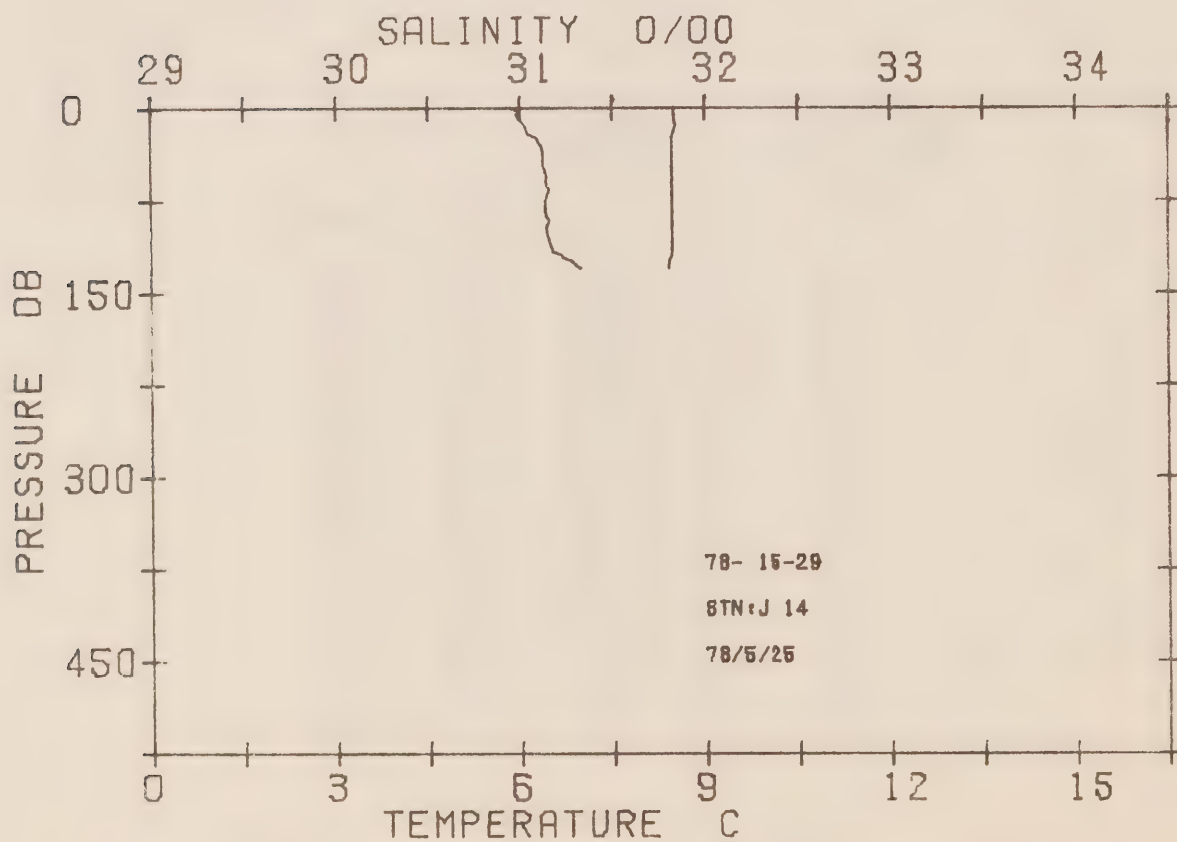
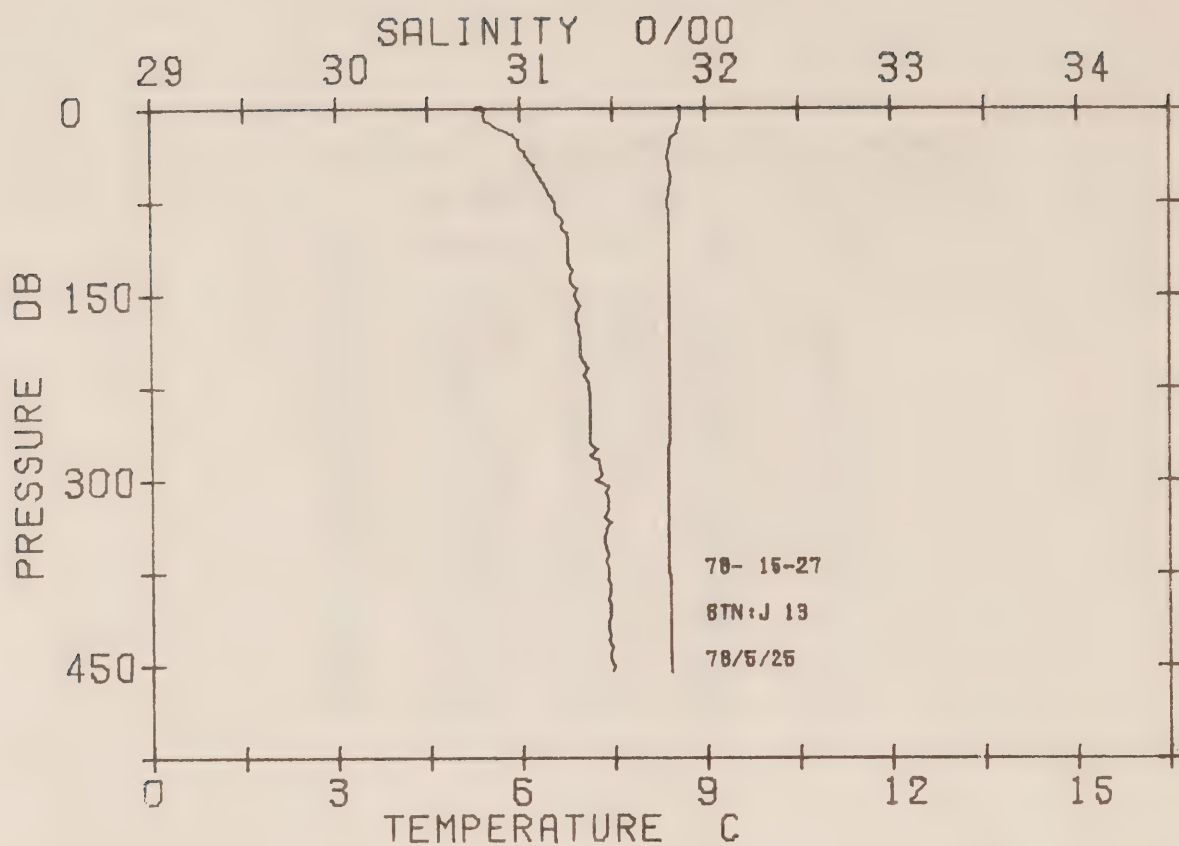


STATION J 11 CRUISE 78-15 CONS # 23
 POSITION 50-30.0N 126-30.0W
 DATE 78/ 5/24 TIME 21:37:20 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.74	30.78	23.88	1480.
10	8.55	30.81	23.93	1480.
20	8.51	30.82	23.95	1480.
30	8.48	30.85	23.98	1480.
50	8.46	30.88	24.00	1480.
75	8.41	30.93	24.05	1480.
100	8.34	31.03	24.14	1481.
125	8.36	31.09	24.18	1481.
150	8.33	31.24	24.30	1482.
175	8.34	31.27	24.33	1482.
200	8.36	31.32	24.36	1483.
225	8.36	31.33	24.37	1483.
250	8.37	31.33	24.37	1484.
275	8.37	31.35	24.39	1484.
300	8.37	31.40	24.42	1485.
325	8.37	31.44	24.45	1485.
350	8.36	31.48	24.49	1485.
375	8.35	31.50	24.50	1486.

STATION J 12 CRUISE 78-15 CONS # 25
 POSITION 50-31.7N 126-41.0W
 DATE 78/ 5/24 TIME 23: 8: 8 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.71	30.79	23.89	1480.
10	8.60	30.80	23.92	1480.
20	8.55	30.82	23.95	1480.
30	8.50	30.88	23.99	1480.
50	8.36	31.08	24.18	1480.
75	8.36	31.19	24.26	1481.
100	8.36	31.29	24.34	1481.
125	8.35	31.35	24.38	1482.
150	8.35	31.35	24.39	1482.
175	8.35	31.37	24.40	1482.
200	8.36	31.39	24.41	1483.
225	8.36	31.37	24.40	1483.
250	8.37	31.39	24.42	1484.
275	8.37	31.39	24.41	1484.
300	8.38	31.40	24.42	1485.
325	8.38	31.39	24.42	1485.
350	8.39	31.41	24.43	1485.
375	8.36	31.42	24.44	1486.
400	8.36	31.45	24.46	1486.
425	8.36	31.51	24.51	1487.
450	8.37	31.51	24.51	1487.

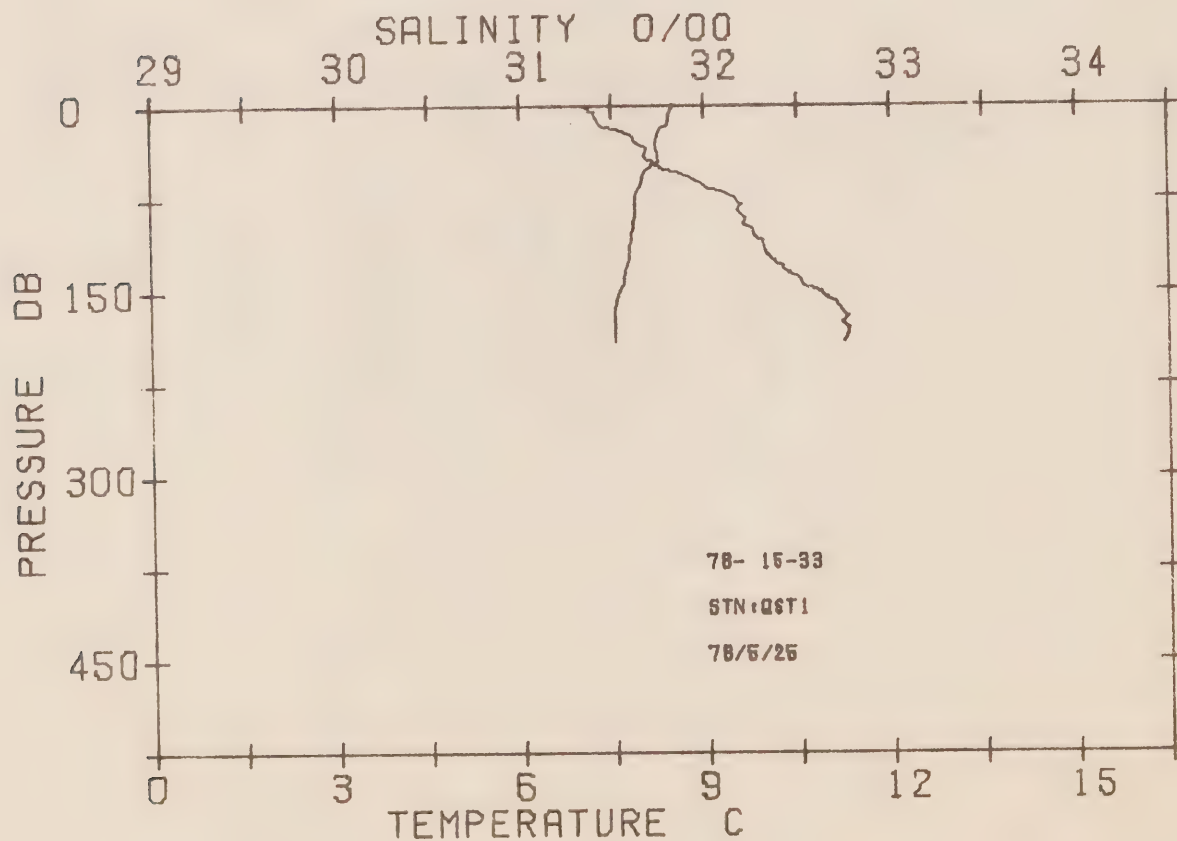
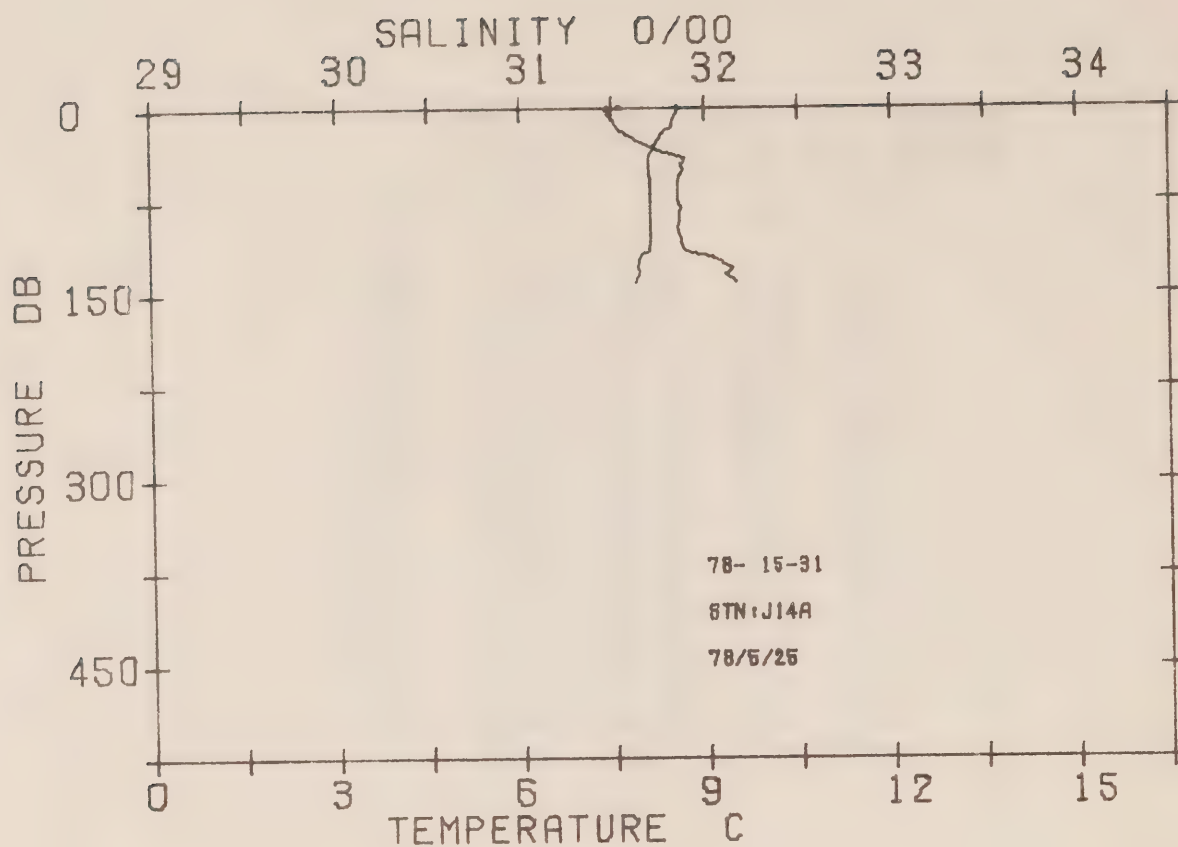


STATION J 13 CRUISE 78-15 CONS # 27
 POSITION 50-33.3N 126-47.0W
 DATE 78/ 5/25 TIME 1:13:51 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.59	30.76	23.89	1480.
10	8.59	30.81	23.93	1480.
20	8.52	30.96	24.05	1480.
30	8.43	30.99	24.09	1480.
50	8.42	31.08	24.17	1480.
75	8.39	31.19	24.25	1481.
100	8.40	31.25	24.30	1481.
125	8.41	31.26	24.31	1482.
150	8.40	31.29	24.33	1482.
175	8.40	31.31	24.35	1483.
200	8.40	31.32	24.36	1483.
225	8.41	31.36	24.38	1483.
250	8.41	31.38	24.40	1484.
275	8.39	31.41	24.42	1484.
300	8.38	31.41	24.43	1485.
325	8.38	31.47	24.48	1485.
350	8.38	31.45	24.46	1485.
375	8.39	31.47	24.47	1486.
400	8.41	31.48	24.48	1486.
425	8.41	31.48	24.48	1487.
450	8.41	31.50	24.49	1487.

STATION J 14 CRUISE 78-15 CONS # 29
 POSITION 50-34.0N 126-52.0W
 DATE 78/ 5/25 TIME 3:23:28 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.51	31.00	24.09	1480.
10	8.51	31.00	24.09	1480.
20	8.49	31.04	24.12	1480.
30	8.46	31.11	24.18	1480.
50	8.47	31.14	24.21	1481.
75	8.47	31.14	24.21	1481.
100	8.48	31.15	24.21	1481.
125	8.43	31.29	24.33	1482.

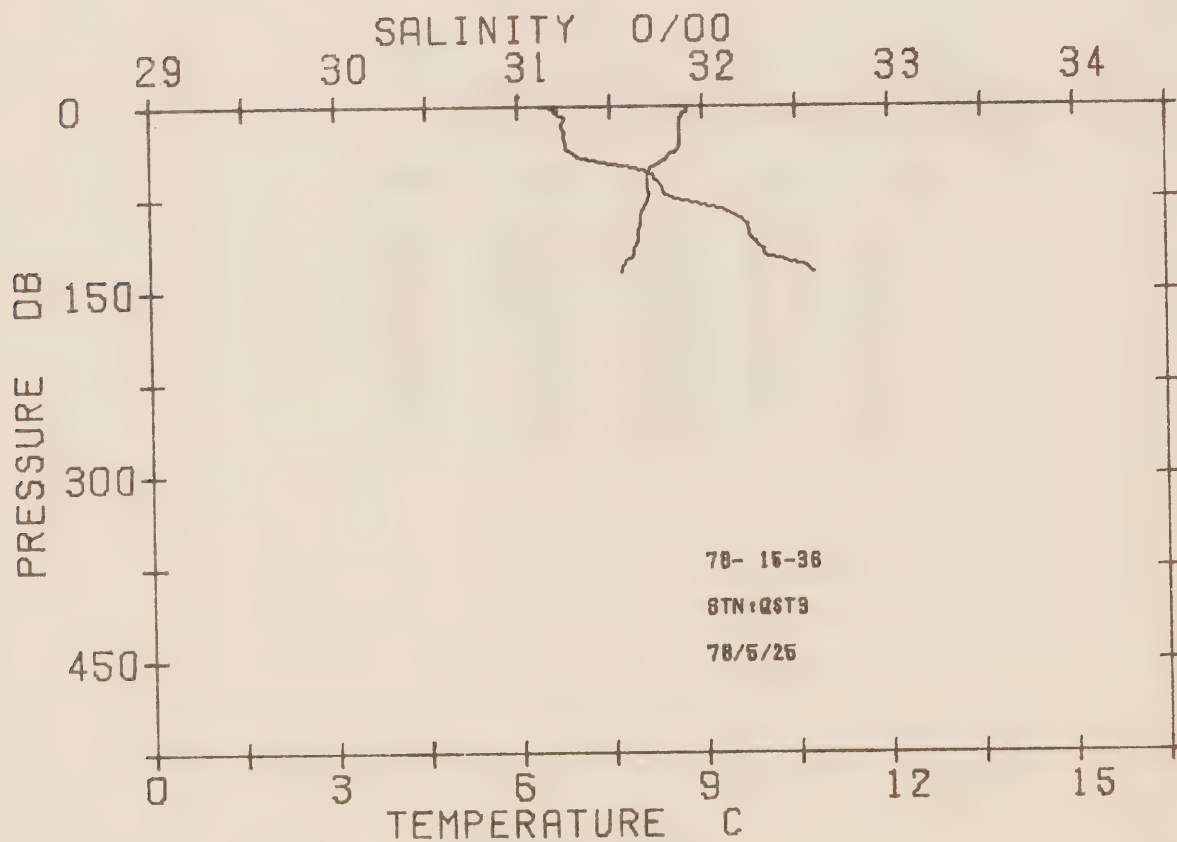
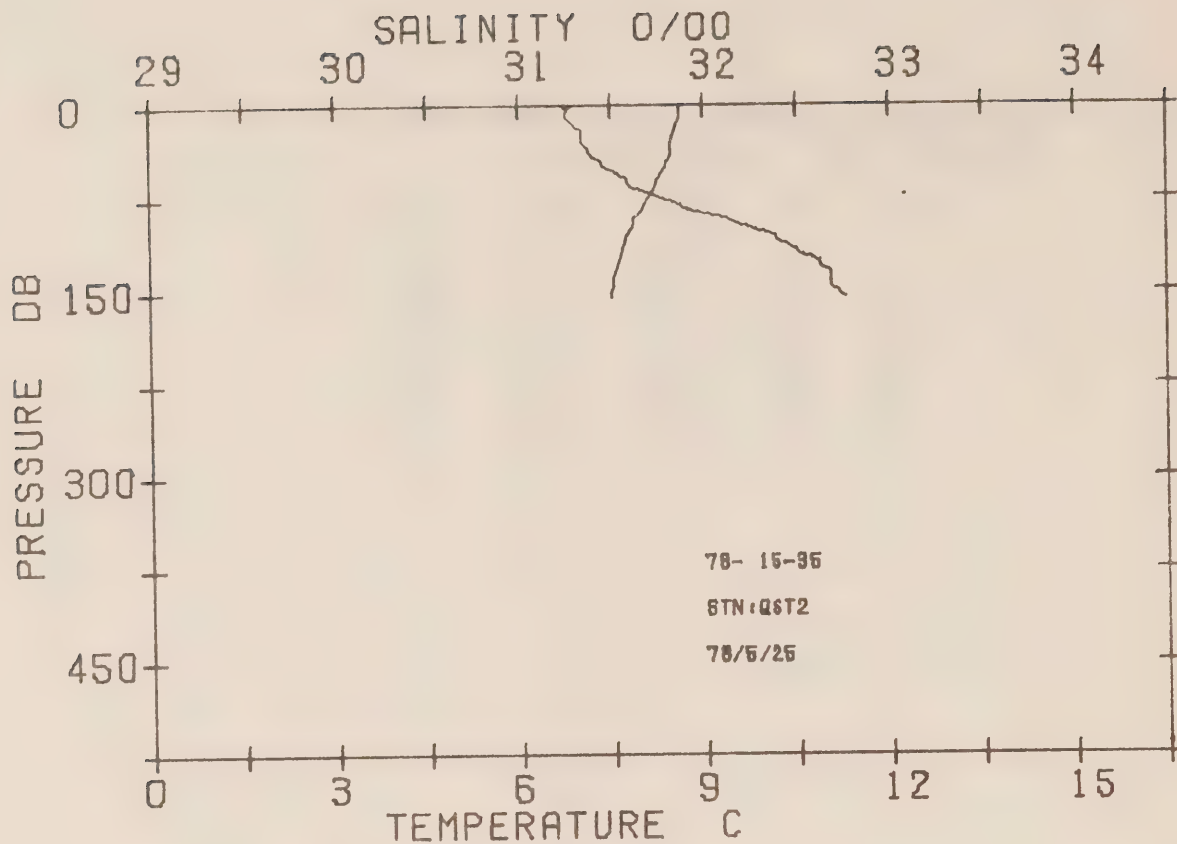


STATION J14A CRUISE 78-15 CONS # 31
 POSITION 50-36.4N 126-50.0W
 DATE 78/ 5/25 TIME 4:31:15 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.58	31.48	24.45	1481.
10	8.51	31.51	24.49	1481.
20	8.35	31.57	24.56	1480.
30	8.23	31.69	24.67	1480.
50	8.09	31.89	24.85	1480.
75	8.12	31.85	24.81	1480.
100	8.12	31.86	24.82	1481.
125	7.95	32.09	25.02	1481.

STATION QST1 CRUISE 78-15 CONS # 33
 POSITION 50-41.9N 126-55.5W
 DATE 78/ 5/25 TIME 6: 5: 6 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.48	31.39	24.40	1480.
10	8.45	31.42	24.43	1480.
20	8.28	31.56	24.56	1480.
30	8.22	31.64	24.63	1480.
50	8.14	31.76	24.74	1480.
75	7.87	32.17	25.10	1480.
100	7.83	32.26	25.18	1480.
125	7.77	32.37	25.27	1481.
150	7.61	32.62	25.49	1481.
175	7.52	32.74	25.59	1481.

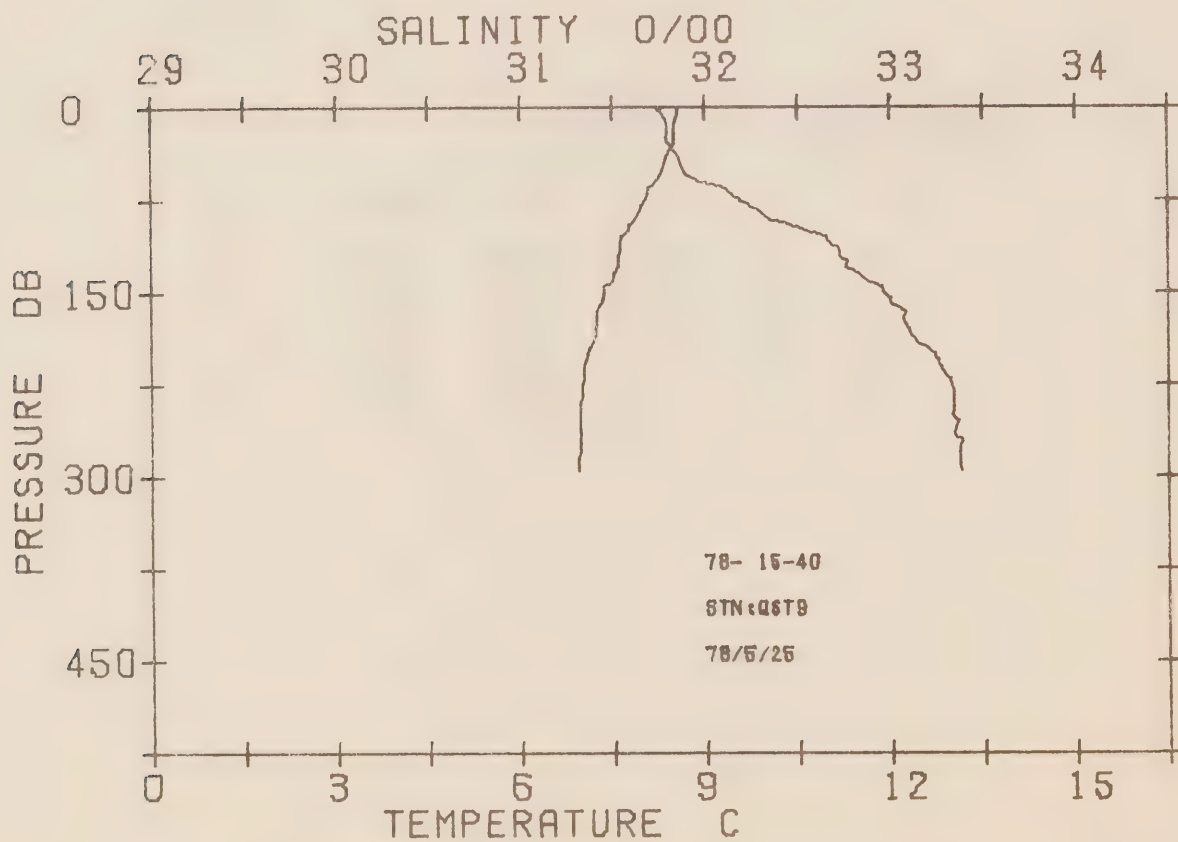
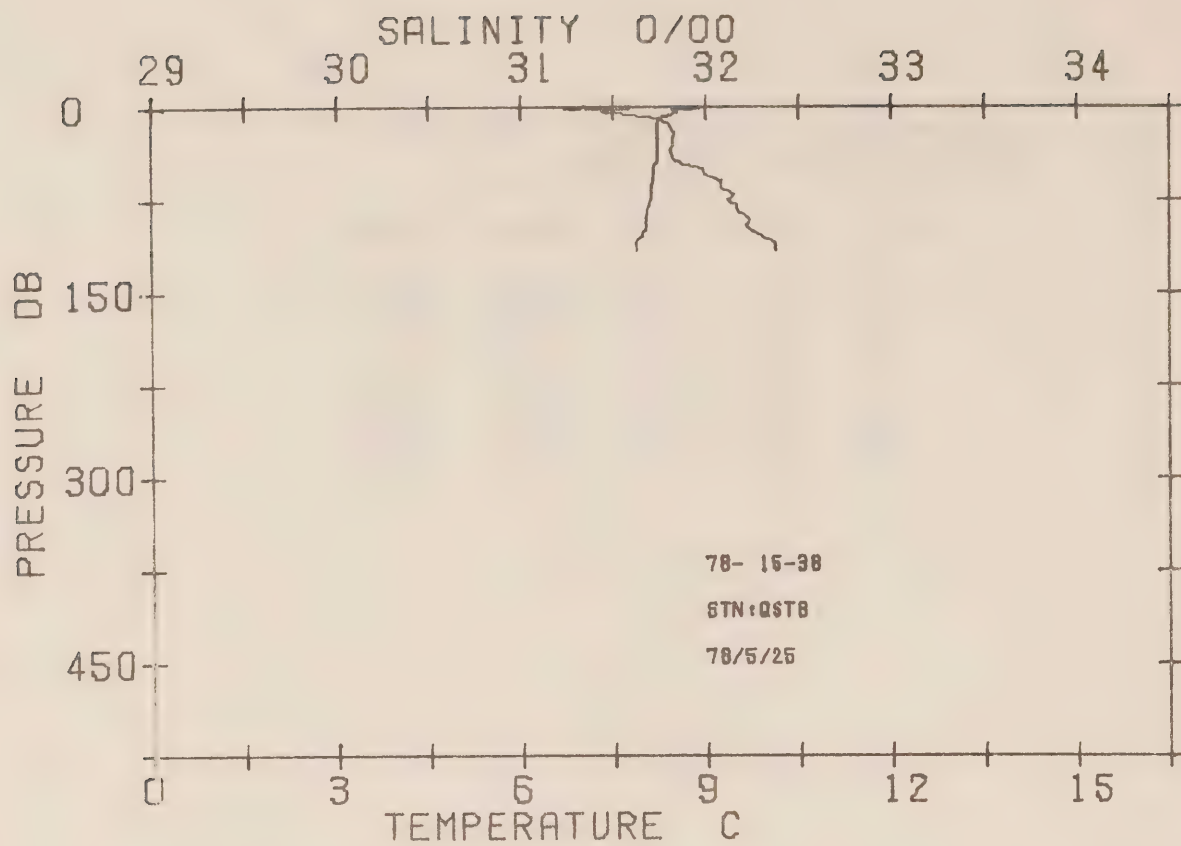


STATION QST2 CRUISE 78-15 CONS # 35
 POSITION 50-45.0N 127- 8.2W
 DATE 78/ 5/25 TIME 7:19:19 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.62	31.25	24.27	1480.
10	8.61	31.26	24.28	1481.
20	8.52	31.34	24.36	1481.
30	8.48	31.34	24.36	1481.
50	8.37	31.47	24.48	1481.
75	8.09	31.78	24.76	1480.
100	7.81	32.28	25.20	1480.
125	7.62	32.62	25.49	1480.
150	7.51	32.73	25.59	1481.

STATION QST3 CRUISE 78-15 CONS # 36
 POSITION 50-51.0N 127-20.0W
 DATE 78/ 5/25 TIME 8:14: 1 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.74	31.17	24.19	1481.
10	8.62	31.25	24.27	1481.
20	8.62	31.25	24.27	1481.
30	8.61	31.26	24.28	1481.
50	8.15	31.64	24.65	1480.
75	8.10	31.85	24.82	1480.
100	7.95	32.25	25.14	1481.
125	7.76	32.45	25.33	1481.

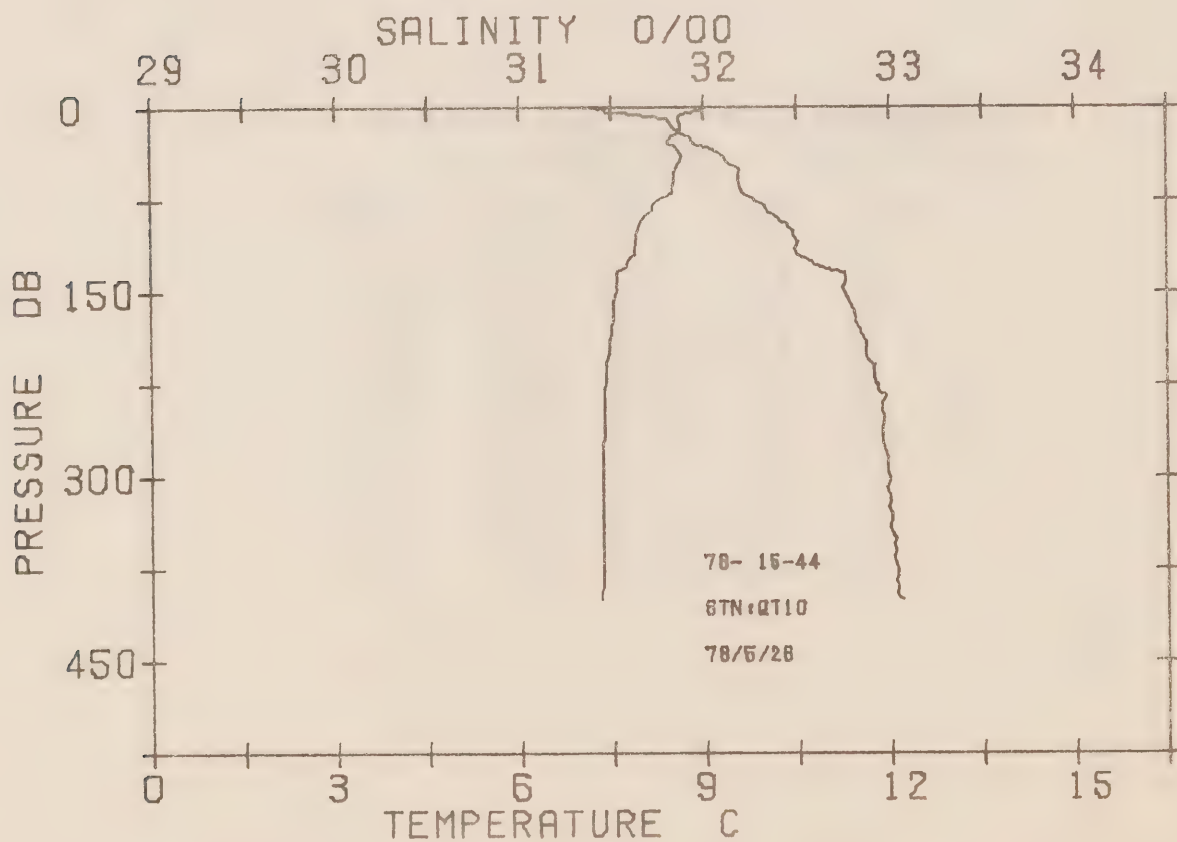
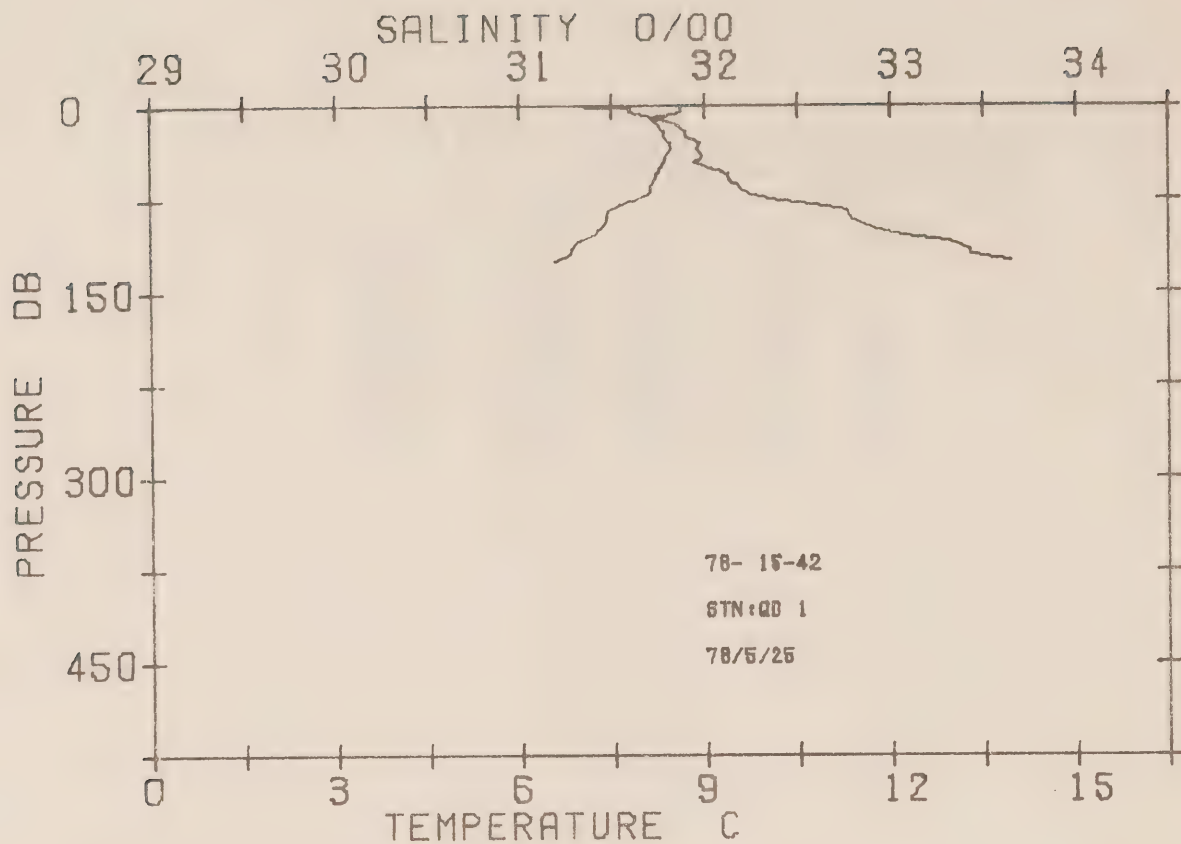


STATION QST8 CRUISE 78-15 CONS # 38
 POSITION 50-50.9N 127-30.0W
 DATE 78/ 5/25 TIME 9:23:20 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.90	31.25	24.23	1482.
10	8.26	31.76	24.72	1480.
20	8.23	31.83	24.78	1480.
30	8.23	31.82	24.77	1480.
50	8.15	31.99	24.91	1480.
75	8.11	32.13	25.04	1481.
100	8.02	32.25	25.14	1481.

STATION QST9 CRUISE 78-15 CONS # 40
 POSITION 50-52.6N 127-35.6W
 DATE 78/ 5/25 TIME 10:13:57 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.56	31.76	24.68	1481.
10	8.52	31.79	24.71	1481.
20	8.51	31.80	24.71	1481.
30	8.49	31.81	24.72	1481.
50	8.30	31.89	24.82	1481.
75	8.03	32.19	25.09	1481.
100	7.74	32.55	25.42	1480.
125	7.59	32.77	25.60	1480.
150	7.36	32.97	25.79	1480.
175	7.25	33.08	25.90	1480.
200	7.09	33.24	26.04	1480.
225	6.99	33.33	26.13	1480.
250	6.98	33.33	26.13	1481.
275	6.97	33.37	26.17	1481.

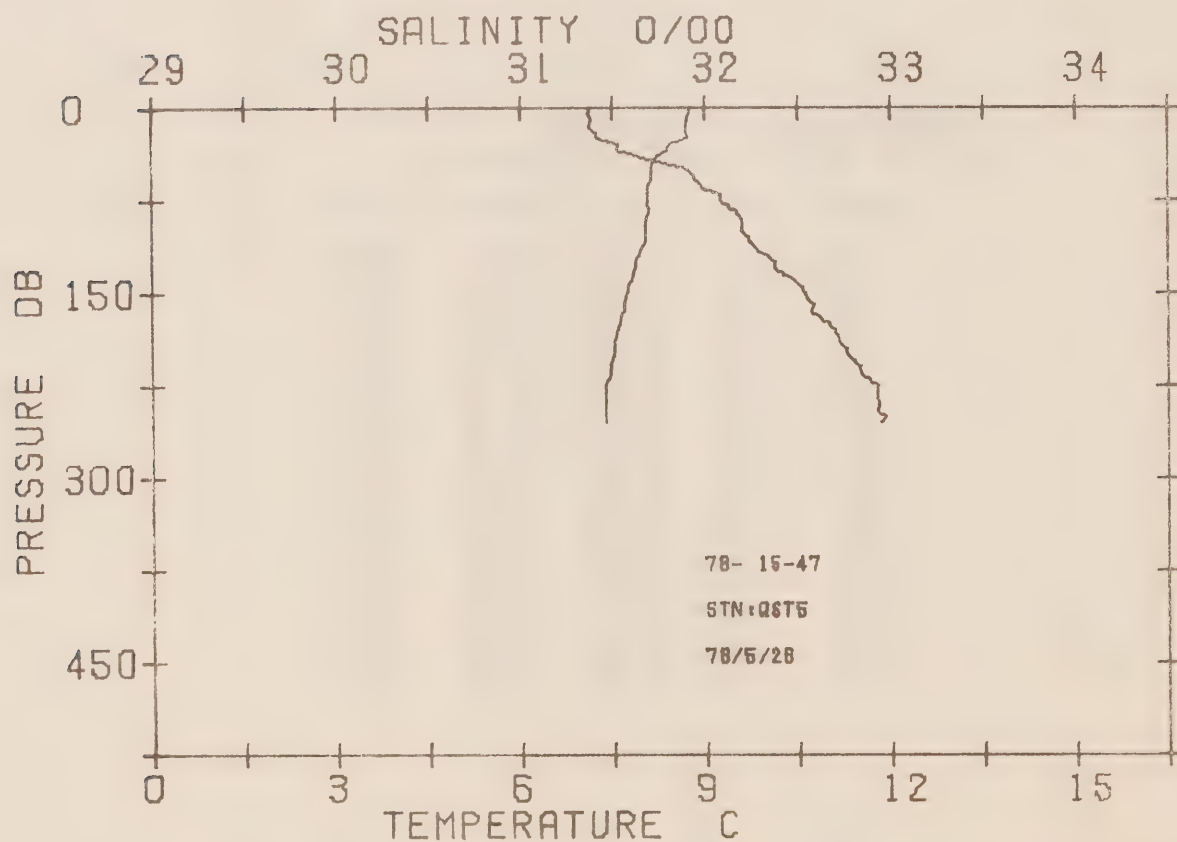
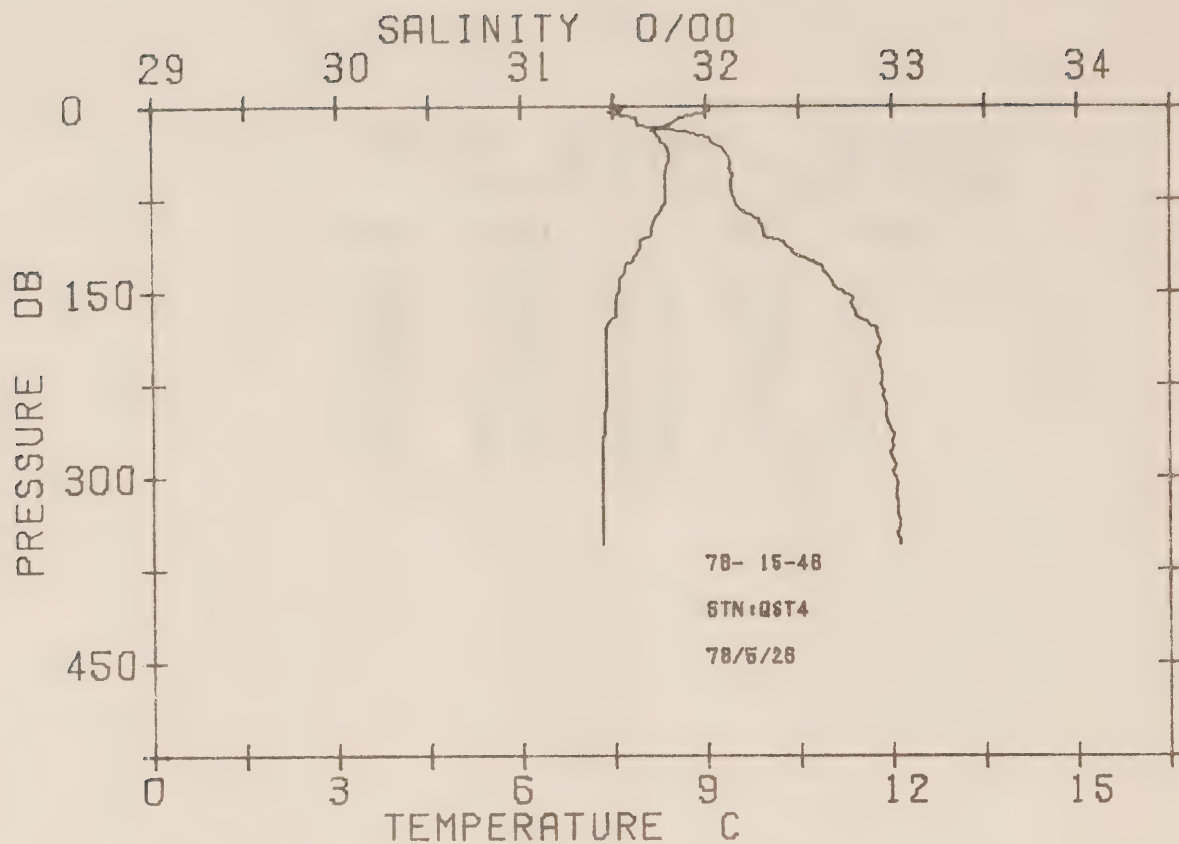


STATION QD 1 CRUISE 78-15 CONS # 42
 POSITION 51- 1.0N 127-55.0W
 DATE 78/ 5/25 TIME 12:12:12 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.61	31.35	24.35	1481.
10	8.14	31.73	24.71	1479.
20	8.34	31.90	24.82	1481.
30	8.45	31.98	24.86	1481.
50	8.20	32.03	24.93	1481.
75	7.91	32.34	25.23	1480.
100	7.27	32.94	25.78	1479.
125	6.57	33.65	26.44	1478.

STATION QT10 CRUISE 78-15 CONS # 44
 POSITION 50-48.4N 127-35.5W
 DATE 78/ 5/26 TIME 6:53:40 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.93	31.46	24.39	1482.
10	8.58	31.80	24.70	1481.
20	8.64	31.87	24.75	1482.
30	8.45	31.95	24.84	1481.
50	8.65	32.20	25.02	1482.
75	8.28	32.27	25.11	1482.
100	7.93	32.48	25.33	1481.
125	7.79	32.58	25.43	1481.
150	7.58	32.76	25.60	1481.
175	7.52	32.82	25.66	1481.
200	7.47	32.87	25.71	1481.
225	7.40	32.94	25.77	1482.
250	7.37	32.97	25.79	1482.
275	7.35	32.97	25.80	1482.
300	7.35	33.00	25.82	1483.
325	7.34	32.99	25.82	1483.
350	7.34	33.03	25.84	1483.
375	7.33	33.04	25.86	1484.
400	7.32	33.06	25.88	1484.

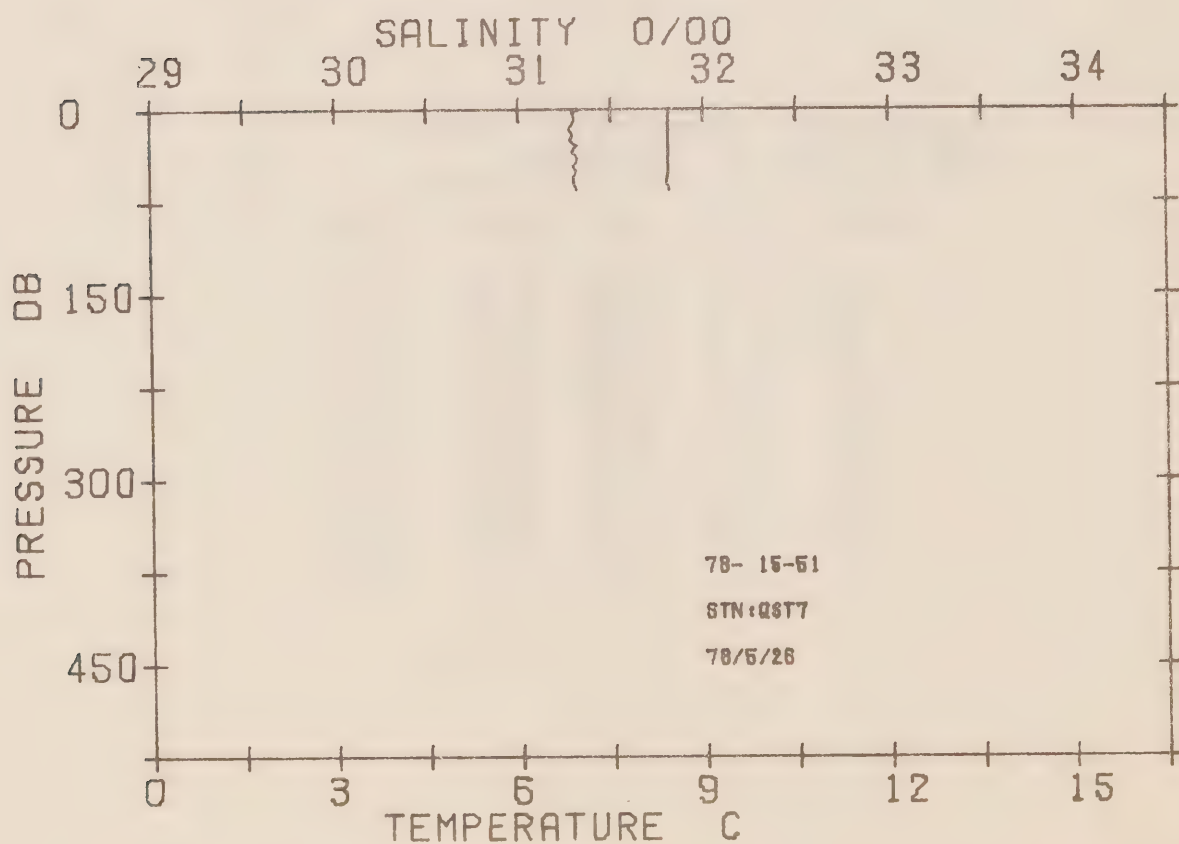
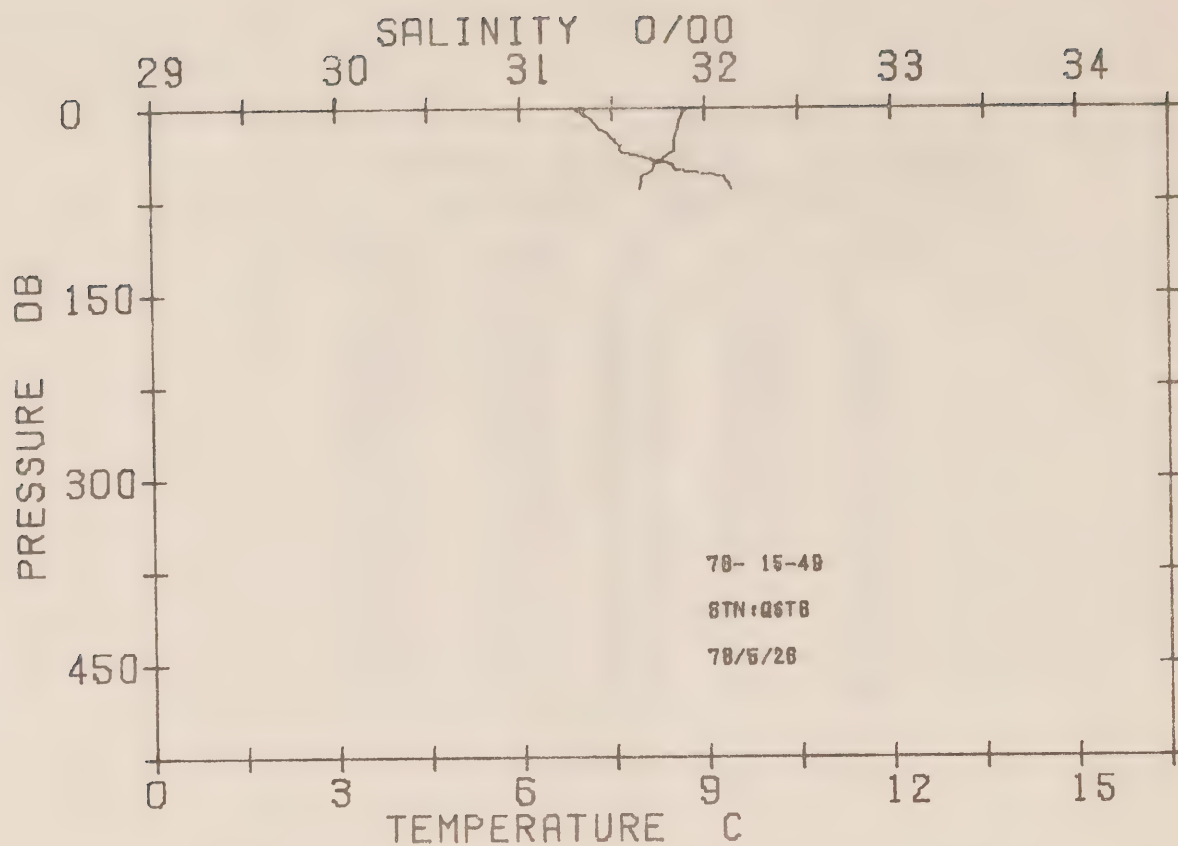


STATION QST4 CRUISE 78-15 CONS # 46
 POSITION 50-47.0N 127-29.0W
 DATE 78/ 5/26 TIME 8:13:56 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.02	31.55	24.45	1482.
10	8.59	31.63	24.57	1481.
20	8.13	31.89	24.84	1480.
30	8.28	32.04	24.93	1481.
50	8.38	32.13	24.99	1481.
75	8.33	32.16	25.03	1482.
100	8.12	32.31	25.17	1482.
125	7.80	32.57	25.42	1481.
150	7.58	32.74	25.59	1481.
175	7.43	32.88	25.72	1481.
200	7.37	32.92	25.76	1481.
225	7.37	32.94	25.77	1481.
250	7.35	32.97	25.80	1482.
275	7.32	33.01	25.83	1482.
300	7.31	33.02	25.84	1483.
325	7.31	33.03	25.85	1483.
350	7.31	33.04	25.86	1483.

STATION QST5 CRUISE 78-15 CONS # 47
 POSITION 50-45.0N 127-20.0W
 DATE 78/ 5/26 TIME 9: 5:10 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.75	31.38	24.35	1481.
10	8.71	31.39	24.36	1481.
20	8.70	31.41	24.38	1481.
30	8.45	31.53	24.51	1481.
50	8.12	31.91	24.86	1480.
75	8.07	32.08	25.00	1481.
100	8.02	32.20	25.10	1481.
125	7.88	32.38	25.26	1481.
150	7.74	32.54	25.41	1481.
175	7.61	32.67	25.53	1481.
200	7.53	32.77	25.62	1481.
225	7.39	32.93	25.76	1482.
250	7.37	32.97	25.79	1482.



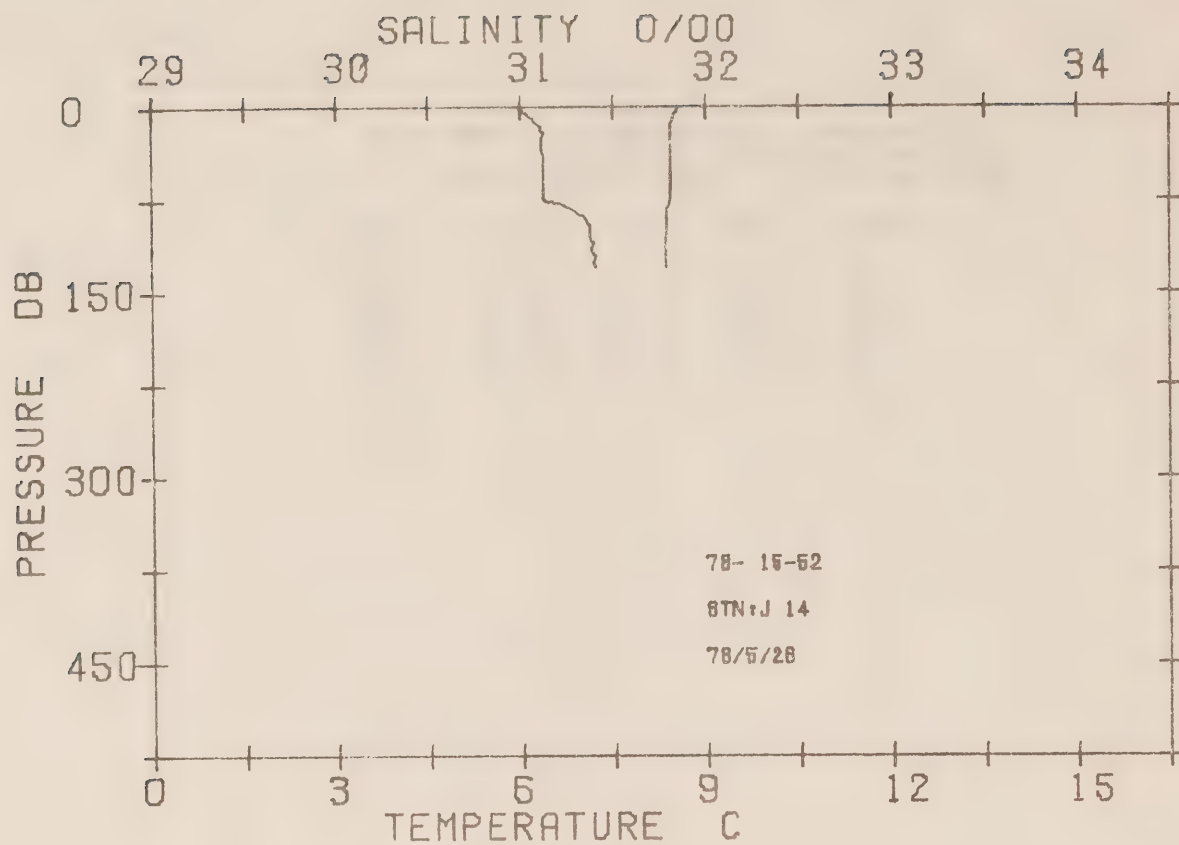
STATION QST6 CRUISE 78-15 CONS # 49
 POSITION 50-40.5N 127-13.5W
 DATE 78/ 5/26 TIME 10:12:43 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.68	31.31	24.31	1481.
10	8.59	31.40	24.39	1481.
20	8.53	31.48	24.46	1481.
30	8.51	31.54	24.51	1481.
50	8.17	31.84	24.79	1480.

STATION QST7 CRUISE 78-15 CONS # 51
 POSITION 50-37.3N 127- 5.0W
 DATE 78/ 5/26 TIME 11:20: 1 PST

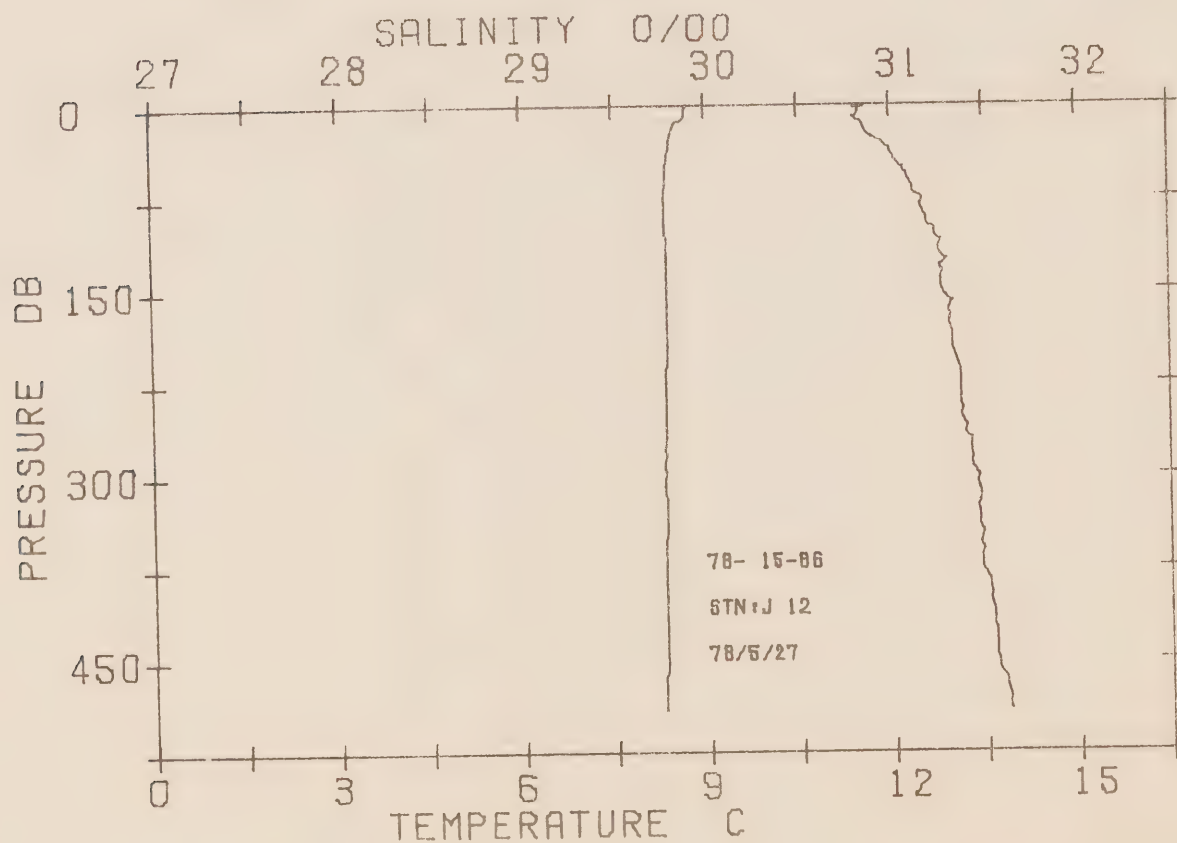
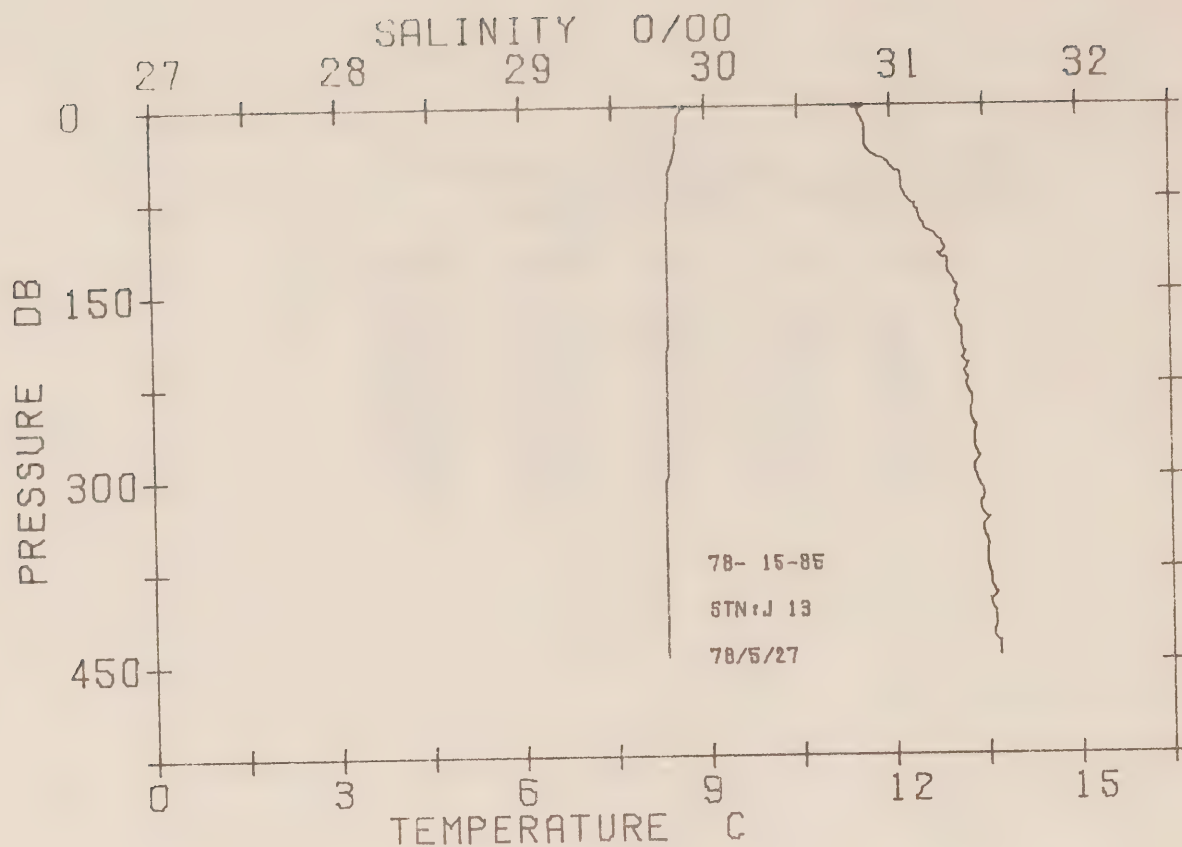
DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.45	31.31	24.34	1480.
10	8.45	31.30	24.33	1480.
20	8.44	31.29	24.33	1480.
30	8.43	31.31	24.34	1480.
50	8.43	31.31	24.34	1481.

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STATION J 14 CRUISE 78-15 CONS # 52
 POSITION 50-34.0N 126-52.0W
 DATE 78/ 5/26 TIME 12:19:18 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.54	30.99	24.08	1480.
10	8.47	31.06	24.14	1480.
20	8.44	31.12	24.19	1480.
30	8.44	31.11	24.19	1480.
50	8.44	31.12	24.19	1480.
75	8.44	31.13	24.20	1481.
100	8.36	31.33	24.41	1481.
125	8.35	31.40	24.43	1482.

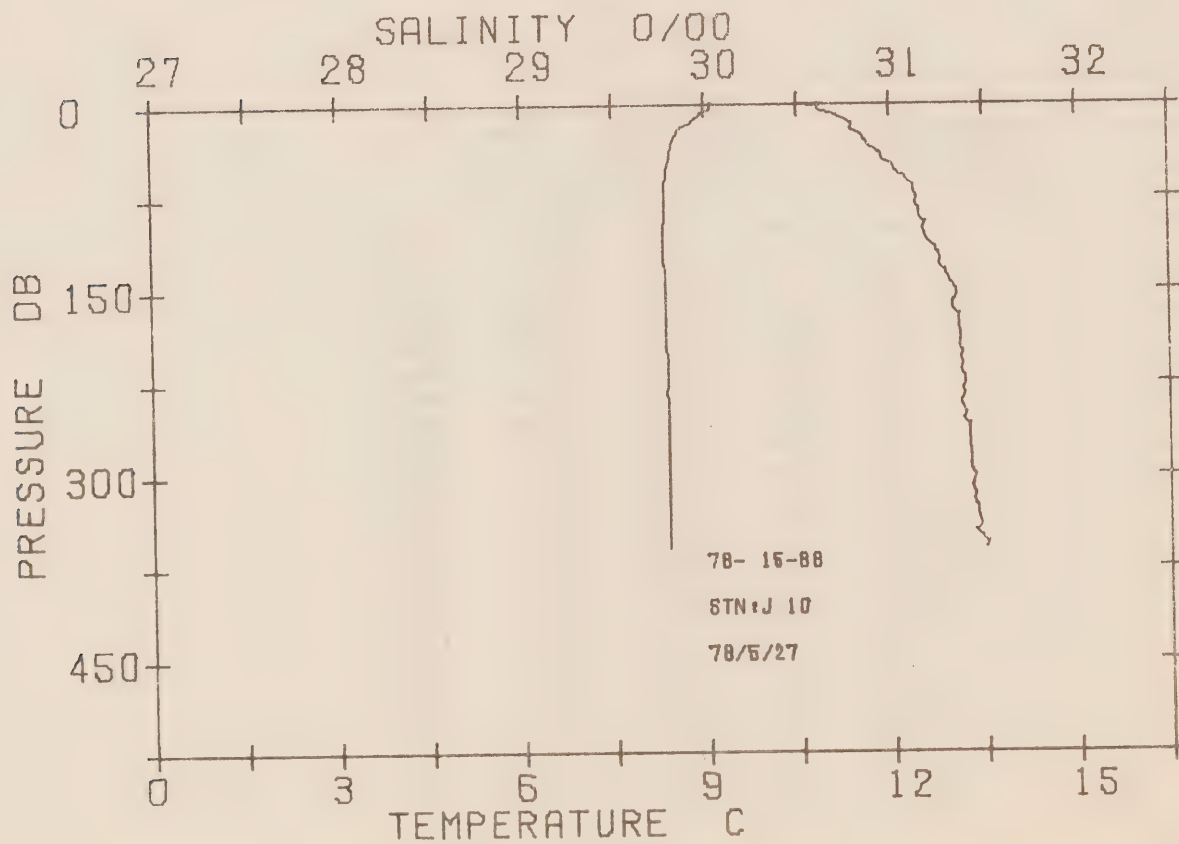
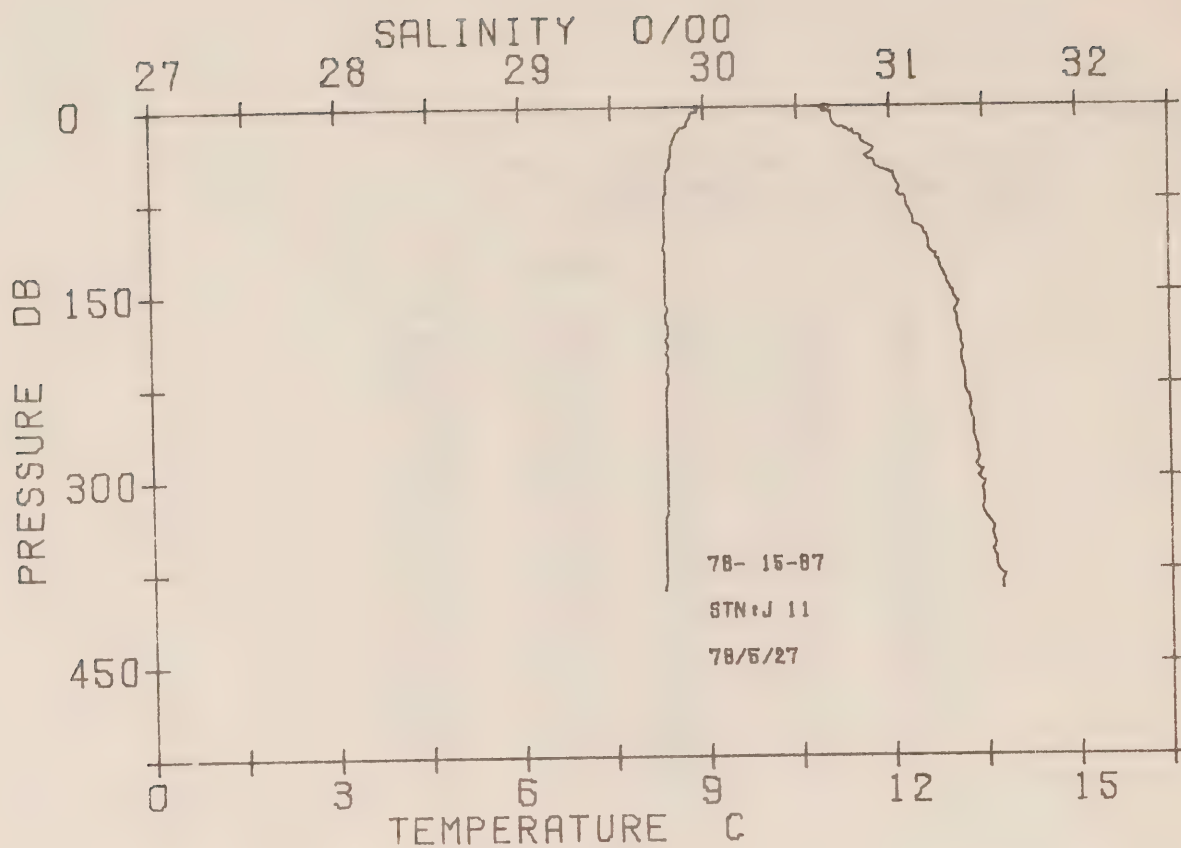


STATION J 13 CRUISE 78-15 CONS # 85
 POSITION 50-33.3N 126-47.0W
 DATE 78/ 5/27 TIME 13:30:16 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.65	30.85	23.95	1480.
10	8.56	30.84	23.95	1480.
20	8.55	30.86	23.97	1480.
30	8.53	30.86	23.97	1480.
50	8.45	31.01	24.10	1480.
75	8.40	31.09	24.17	1481.
100	8.39	31.19	24.26	1481.
125	8.37	31.30	24.34	1482.
150	8.36	31.34	24.37	1482.
175	8.36	31.35	24.38	1482.
200	8.35	31.40	24.42	1483.
225	8.35	31.40	24.43	1483.
250	8.34	31.42	24.45	1484.
275	8.33	31.44	24.46	1484.
300	8.33	31.45	24.47	1484.
325	8.32	31.47	24.48	1485.
350	8.32	31.50	24.51	1485.
375	8.31	31.51	24.51	1486.
400	8.31	31.52	24.53	1486.
425	8.31	31.53	24.53	1487.

STATION J 12 CRUISE 78-15 CONS # 86
 POSITION 50-31.7N 126-47.0W
 DATE 78/ 5/27 TIME 14:12:23 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.72	30.82	23.92	1480.
10	8.70	30.81	23.91	1480.
20	8.49	30.88	24.00	1480.
30	8.44	30.97	24.08	1480.
50	8.37	31.07	24.17	1480.
75	8.35	31.18	24.25	1481.
100	8.35	31.24	24.30	1481.
125	8.36	31.30	24.34	1482.
150	8.36	31.28	24.33	1482.
175	8.37	31.31	24.35	1482.
200	8.36	31.34	24.38	1483.
225	8.35	31.38	24.41	1483.
250	8.35	31.38	24.41	1484.
275	8.33	31.43	24.45	1484.
300	8.33	31.47	24.48	1484.
325	8.33	31.46	24.48	1485.
350	8.33	31.48	24.50	1485.
375	8.32	31.40	24.49	1486.
400	8.31	31.52	24.53	1486.
425	8.30	31.55	24.55	1487.
450	8.31	31.56	24.56	1487.
475	8.29	31.61	24.60	1487.

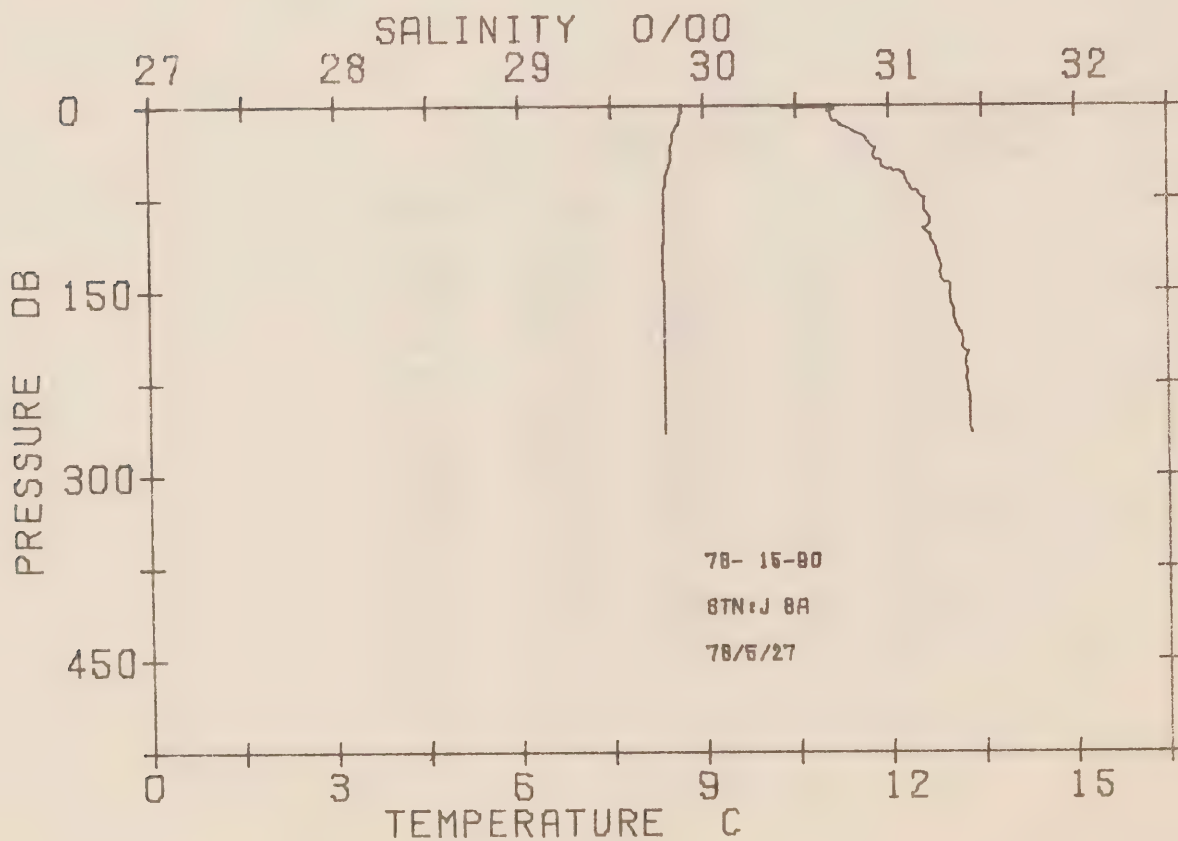
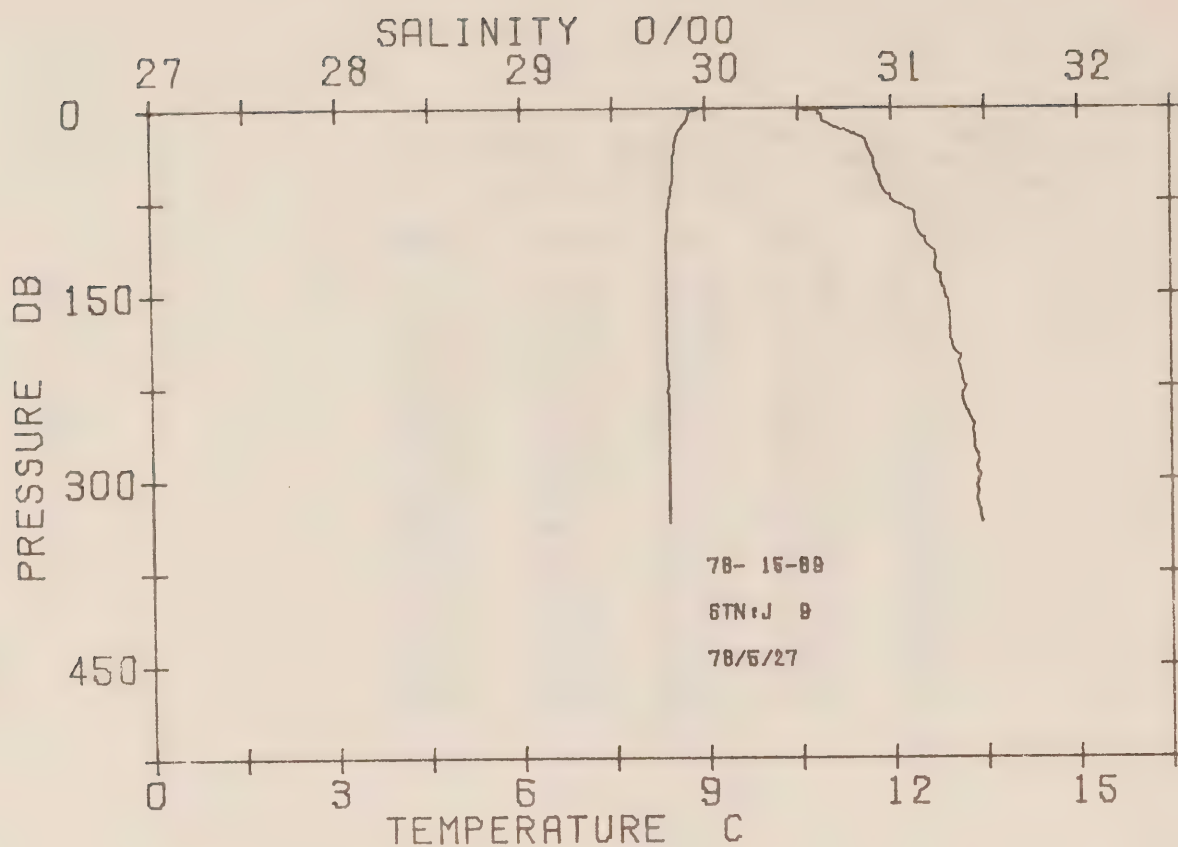


STATION J 11 CRUISE 78-15 CONS # 87
 POSITION 50-30.0N 126-30.0W
 DATE 78/ 5/27 TIME 15:12:38 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.69	30.68	23.78	1481.
10	8.77	30.69	23.81	1480.
20	8.58	30.80	23.92	1480.
30	8.49	30.86	23.99	1480.
50	8.43	30.94	24.06	1480.
75	8.35	31.03	24.17	1480.
100	8.33	31.18	24.26	1481.
125	8.34	31.26	24.32	1481.
150	8.35	31.33	24.37	1482.
175	8.35	31.35	24.38	1482.
200	8.35	31.37	24.40	1483.
225	8.36	31.40	24.43	1483.
250	8.35	31.43	24.45	1484.
275	8.35	31.45	24.47	1484.
300	8.34	31.46	24.48	1485.
325	8.33	31.48	24.49	1485.
350	8.32	31.54	24.54	1485.
375	8.30	31.56	24.56	1486.

STATION J 10 CRUISE 78-15 CONS # 88
 POSITION 50-29.7N 126-18.7W
 DATE 78/ 5/27 TIME 16: 9:21 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.13	30.63	23.71	1482.
10	8.93	30.72	23.81	1481.
20	8.64	30.79	23.90	1480.
30	8.50	30.88	24.00	1480.
50	8.40	31.02	24.12	1480.
75	8.34	31.15	24.23	1480.
100	8.31	31.18	24.26	1481.
125	8.32	31.27	24.33	1481.
150	8.34	31.35	24.39	1482.
175	8.35	31.36	24.39	1482.
200	8.35	31.39	24.42	1483.
225	8.36	31.40	24.42	1483.
250	8.36	31.41	24.43	1484.
275	8.36	31.42	24.44	1484.
300	8.36	31.45	24.46	1485.
325	8.36	31.46	24.47	1485.
350	8.36	31.48	24.49	1485.

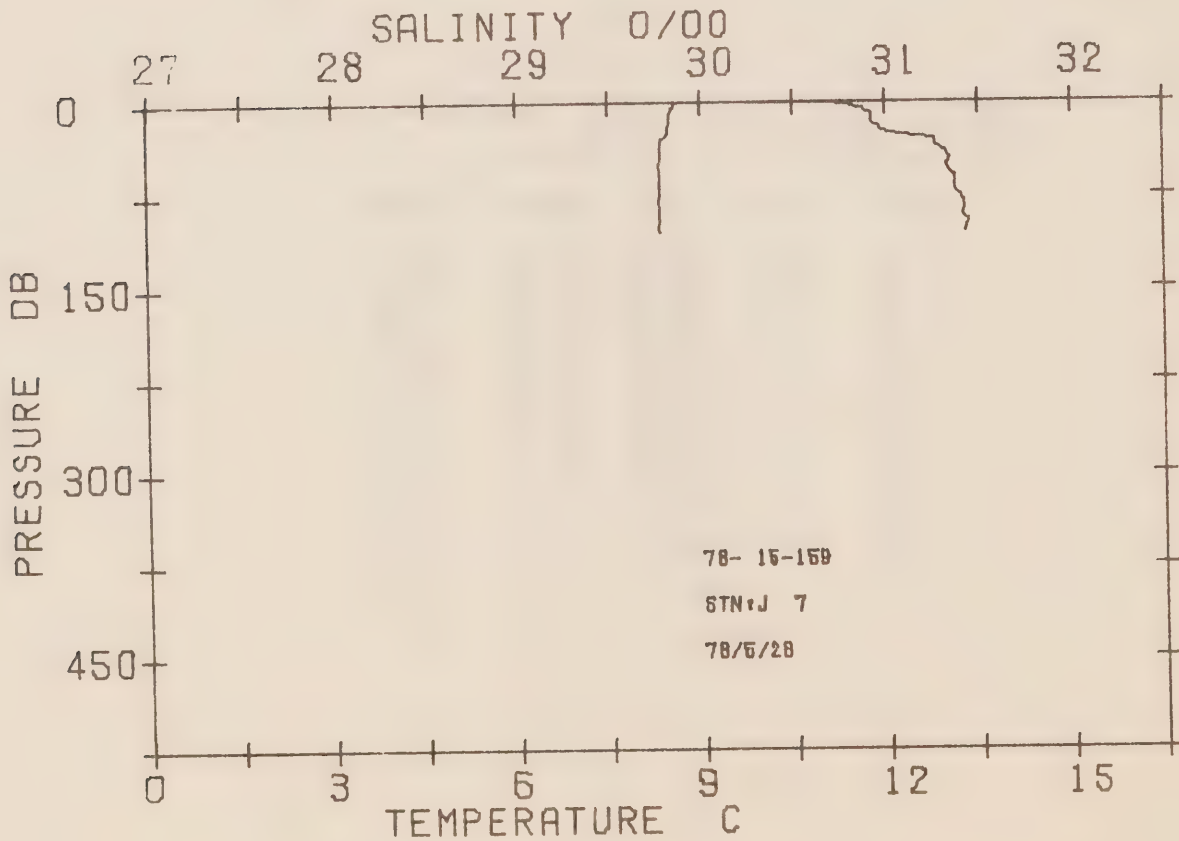
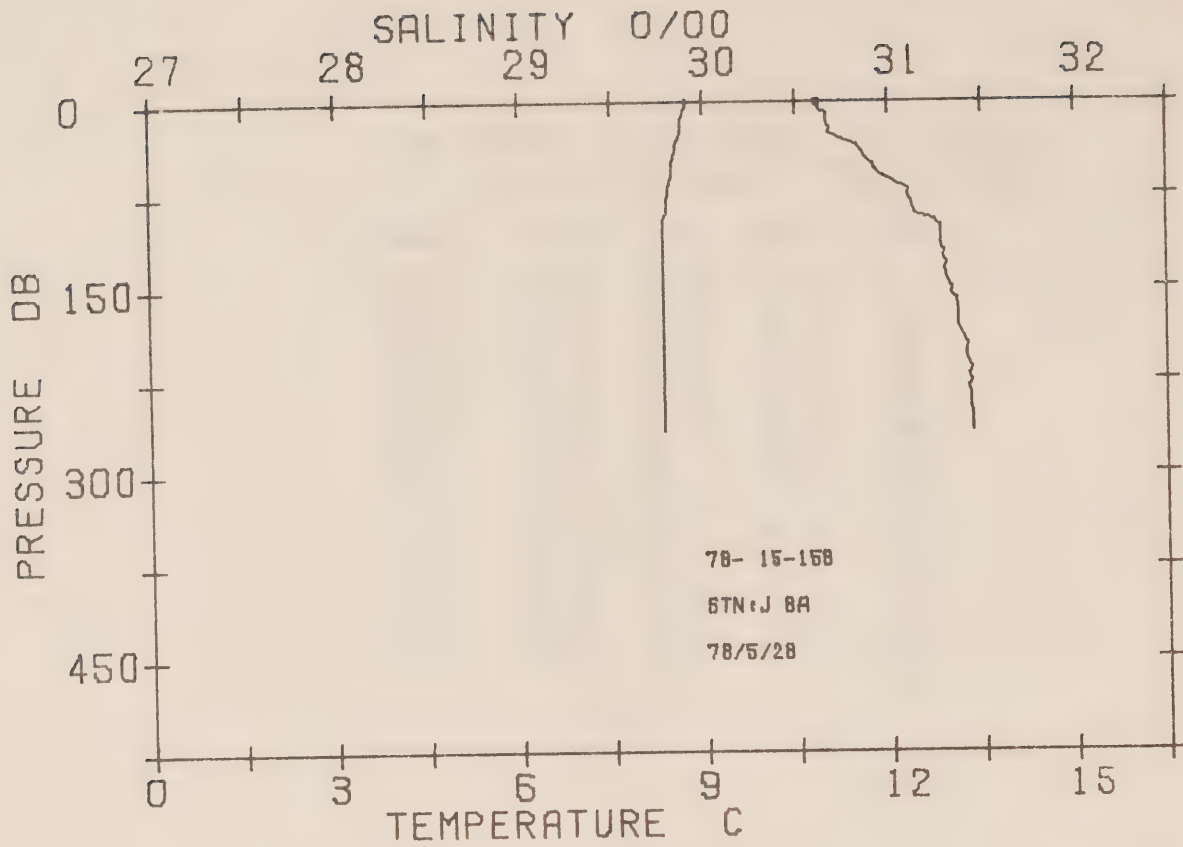


STATION J 9 CRUISE 78-15 CONS # 89
 POSITION 50-28.5N 126-10.7W
 DATE 78/ 5/27 TIME 17: 2:14 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.74	30.76	23.87	1480.
10	8.72	30.62	23.77	1480.
20	8.57	30.80	23.93	1480.
30	8.51	30.88	24.00	1480.
50	8.48	30.92	24.03	1480.
75	8.42	31.01	24.11	1481.
100	8.36	31.15	24.23	1481.
125	8.34	31.23	24.29	1481.
150	8.34	31.28	24.33	1482.
175	8.34	31.31	24.36	1482.
200	8.34	31.36	24.40	1483.
225	8.36	31.40	24.42	1483.
250	8.36	31.42	24.44	1484.
275	8.36	31.44	24.46	1484.
300	8.36	31.46	24.47	1485.
325	8.37	31.47	24.48	1485.

STATION J 8A CRUISE 78-15 CONS # 90
 POSITION 50-27.9N 126- 3.5W
 DATE 78/ 5/27 TIME 17:50:46 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.65	30.68	23.82	1480.
10	8.63	30.69	23.83	1480.
20	8.54	30.81	23.94	1480.
30	8.49	30.90	24.02	1480.
50	8.45	30.97	24.08	1480.
75	8.34	31.19	24.26	1480.
100	8.33	31.19	24.27	1481.
125	8.32	31.27	24.33	1481.
150	8.33	31.32	24.37	1482.
175	8.34	31.35	24.39	1482.
200	8.34	31.42	24.44	1483.
225	8.35	31.42	24.44	1483.
250	8.35	31.43	24.45	1484.

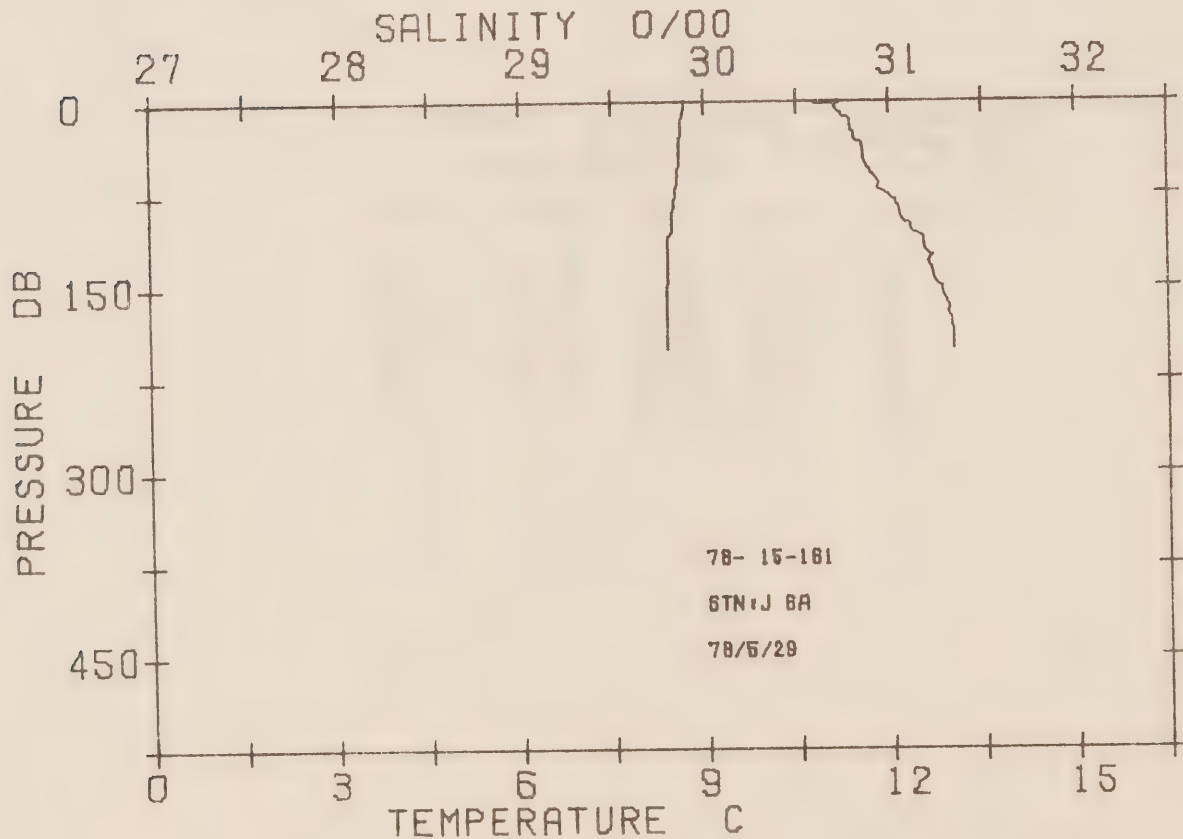
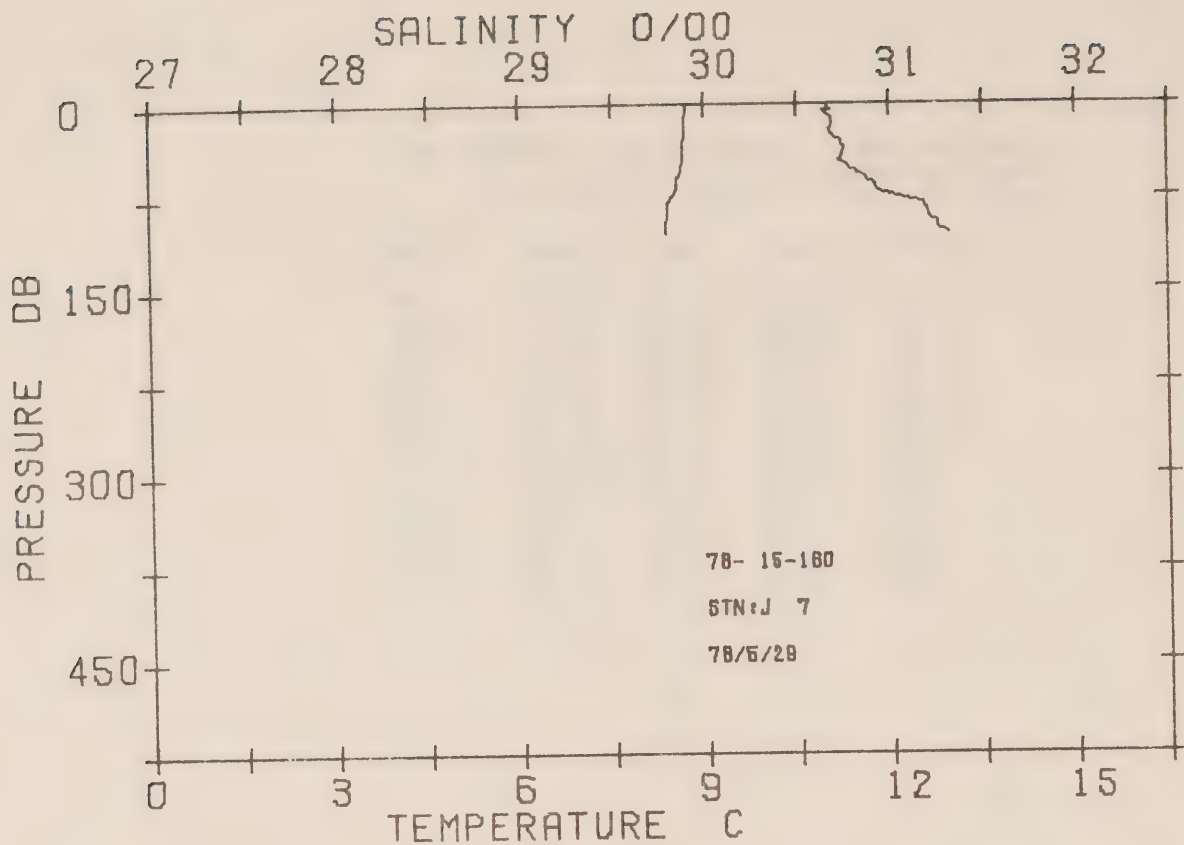


STATION J 8A CRUISE 78-15 CONS #158
 POSITION 50-27.9N 126- 3.5W
 DATE 78/ 5/28 TIME 18:17:17 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.73	30.63	23.77	1480.
10	8.69	30.67	23.81	1480.
20	8.65	30.69	23.83	1480.
30	8.61	30.75	23.88	1480.
50	8.51	30.92	24.03	1480.
75	8.43	31.10	24.18	1481.
100	8.35	31.28	24.33	1481.
125	8.34	31.29	24.34	1481.
150	8.34	31.34	24.38	1482.
175	8.35	31.37	24.40	1482.
200	8.35	31.42	24.44	1483.
225	8.35	31.45	24.46	1483.
250	8.35	31.45	24.47	1484.

STATION J 7 CRUISE 78-15 CONS #159
 POSITION 50-26.9N 126- 2.1W
 DATE 78/ 5/28 TIME 18:41:47 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.55	30.80	23.93	1480.
10	8.51	30.93	24.03	1480.
20	8.48	30.97	24.07	1480.
30	8.36	31.27	24.32	1480.
50	8.32	31.33	24.38	1480.
75	8.33	31.41	24.44	1481.
100	8.32	31.44	24.46	1481.

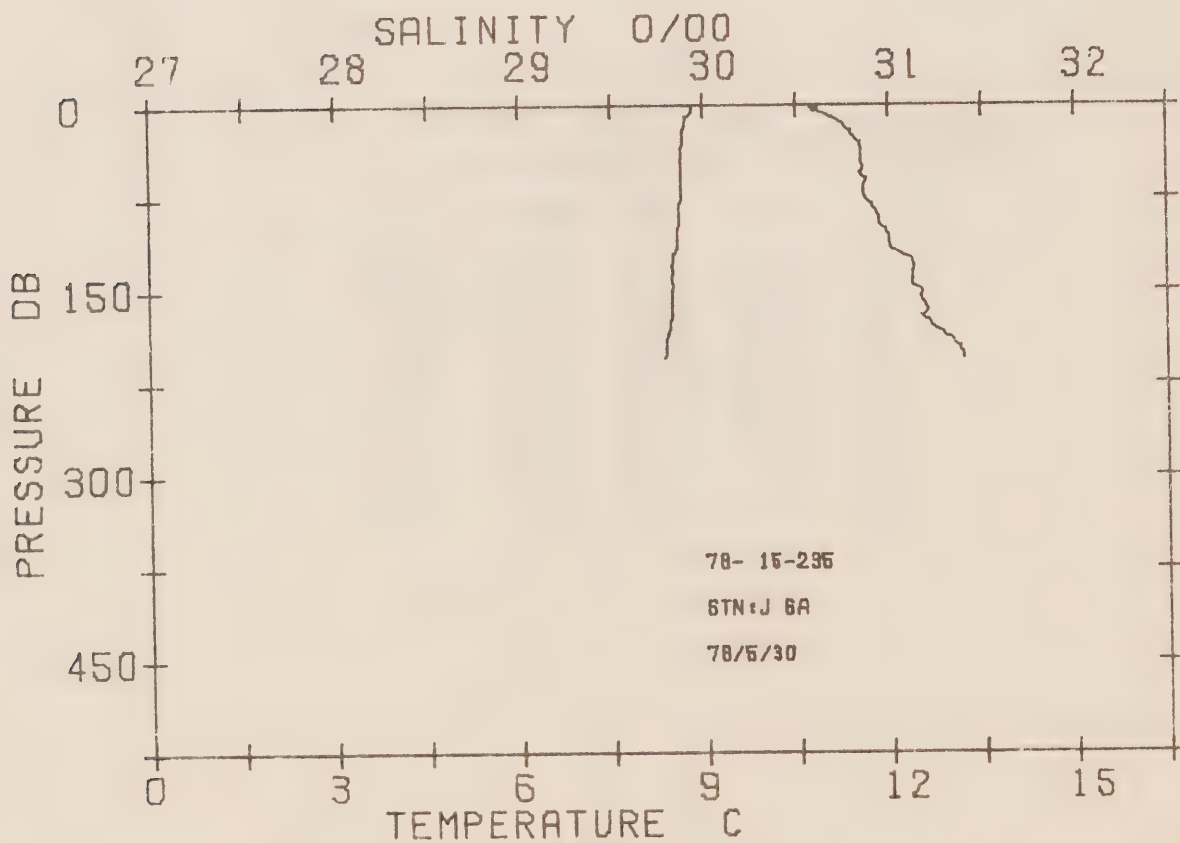
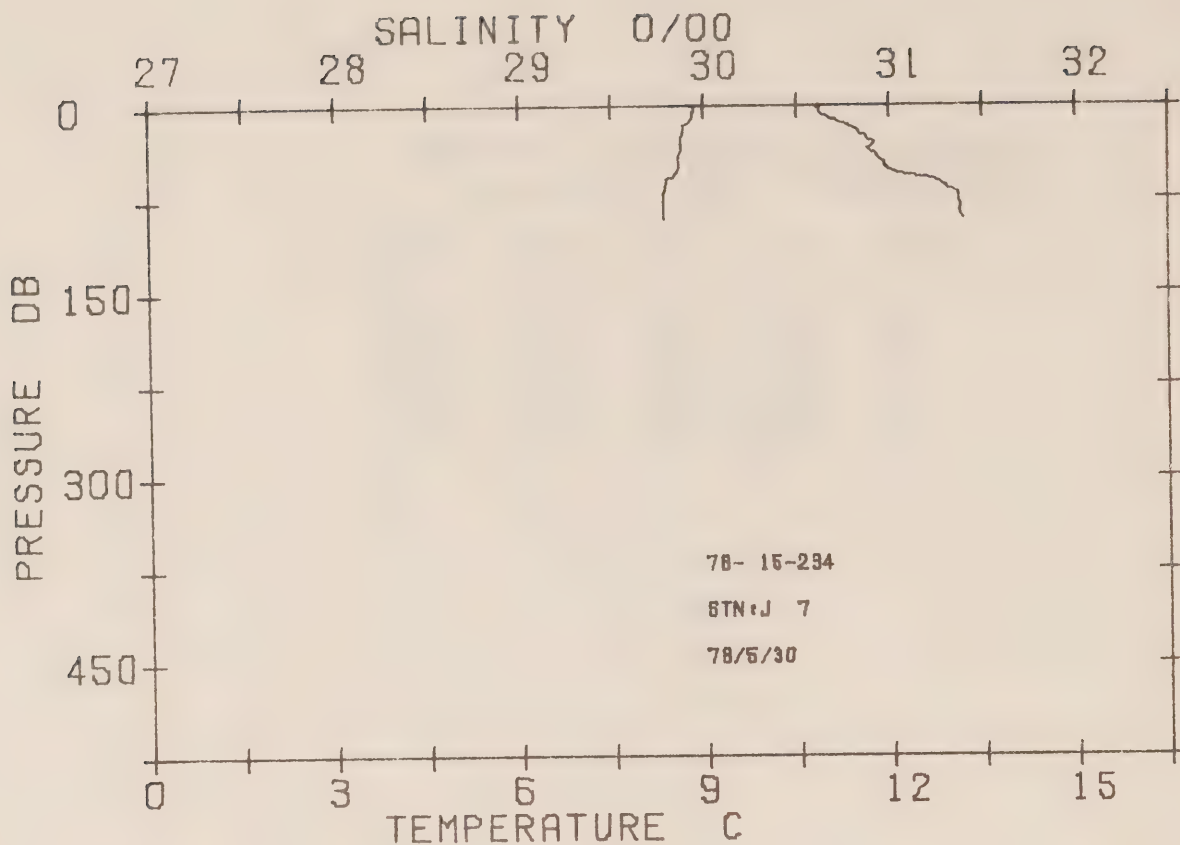


STATION J 7 CRUISE 78-15 CONS #160
 POSITION 50-26.9N 126- 2.1W
 DATE 78/ 5/29 TIME 18:19:46 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.71	30.67	23.80	1480.
10	8.70	30.69	23.82	1480.
20	8.70	30.68	23.81	1480.
30	8.65	30.74	23.86	1480.
50	8.62	30.78	23.90	1481.
75	8.48	31.05	24.14	1481.
100	8.39	31.27	24.32	1481.

STATION J 6A CRUISE 78-15 CONS #161
 POSITION 50-26.0N 126- .3W
 DATE 78/ 5/29 TIME 18:41:47 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.69	30.72	23.85	1480.
10	8.66	30.74	23.86	1480.
20	8.61	30.79	23.91	1480.
30	8.60	30.81	23.93	1480.
50	8.58	30.88	23.99	1481.
75	8.52	31.00	24.09	1481.
100	8.46	31.11	24.18	1481.
125	8.42	31.23	24.28	1482.
150	8.39	31.28	24.33	1482.
175	8.38	31.33	24.37	1482.
200	8.38	31.34	24.37	1483.

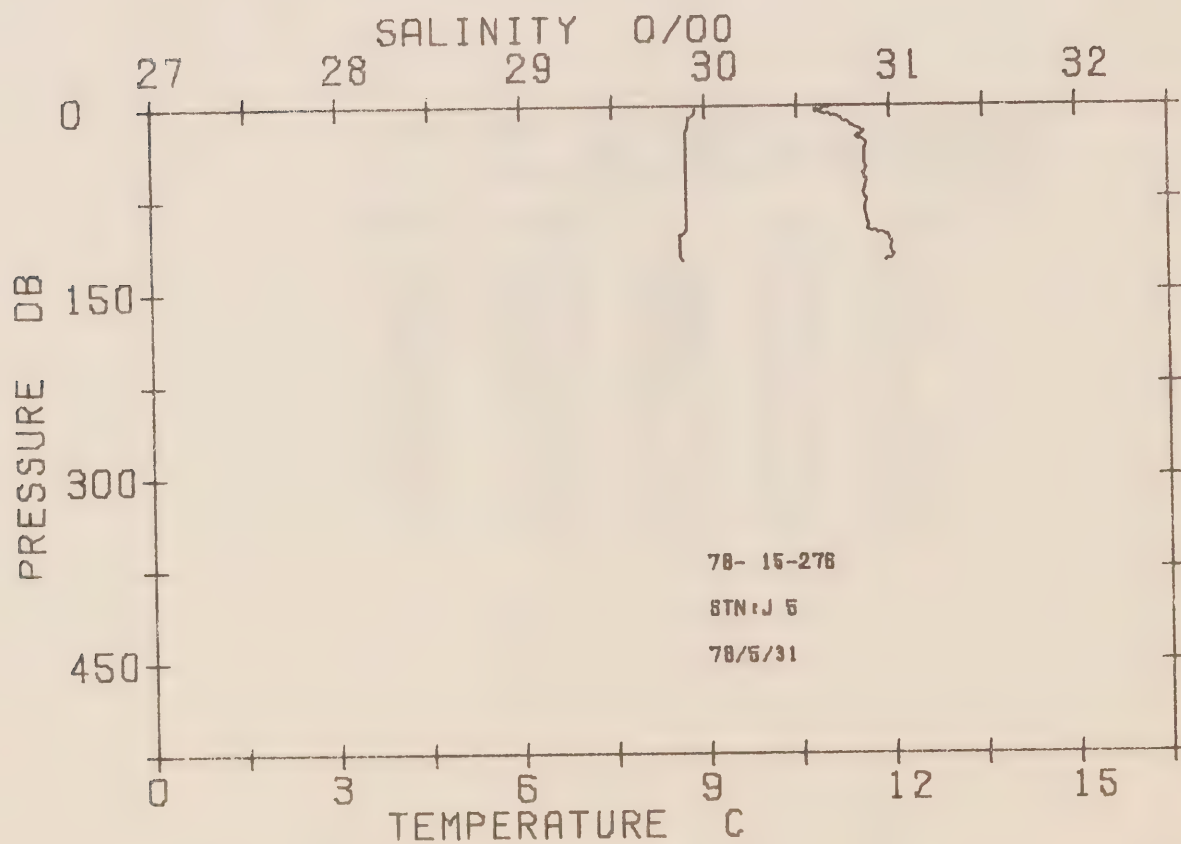
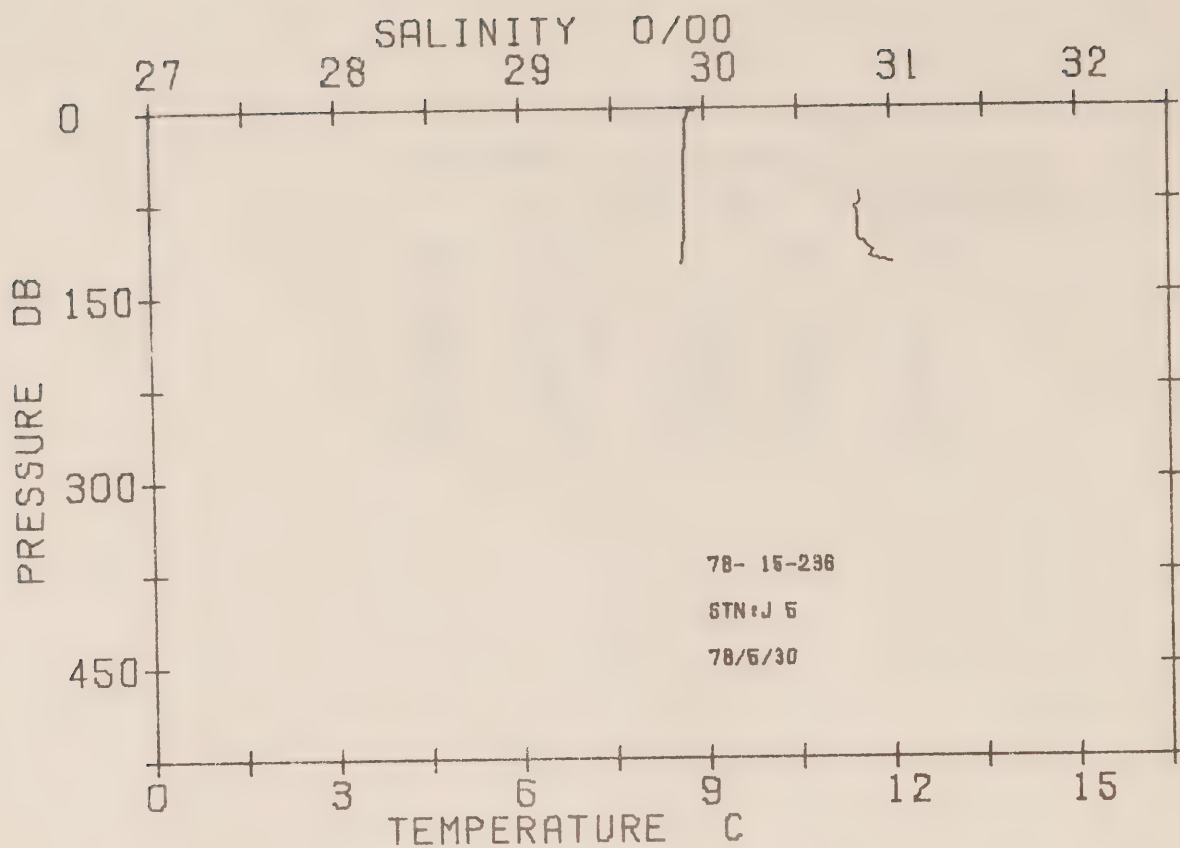


STATION J 7 CRUISE 78-15 CONS #234
 POSITION 50-26.9N 126- 2.1W
 DATE 78/ 5/30 TIME 18:51: 5 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.83	30.62	23.75	1480.
10	8.80	30.67	23.79	1481.
20	8.66	30.83	23.93	1480.
30	8.61	30.92	24.01	1480.
50	8.58	30.99	24.08	1481.
75	8.34	31.38	24.41	1481.

STATION J 6A CRUISE 78-15 CONS #235
 POSITION 50-26.0N 126- .3W
 DATE 78/ 5/30 TIME 19: 9:14 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.81	30.59	23.73	1480.
10	8.73	30.70	23.82	1480.
20	8.67	30.79	23.90	1480.
30	8.65	30.84	23.95	1480.
50	8.64	30.86	23.96	1481.
75	8.63	30.87	23.97	1481.
100	8.56	30.98	24.07	1481.
125	8.49	31.13	24.19	1482.
150	8.47	31.18	24.23	1482.
175	8.44	31.22	24.27	1483.
200	8.36	31.40	24.42	1483.

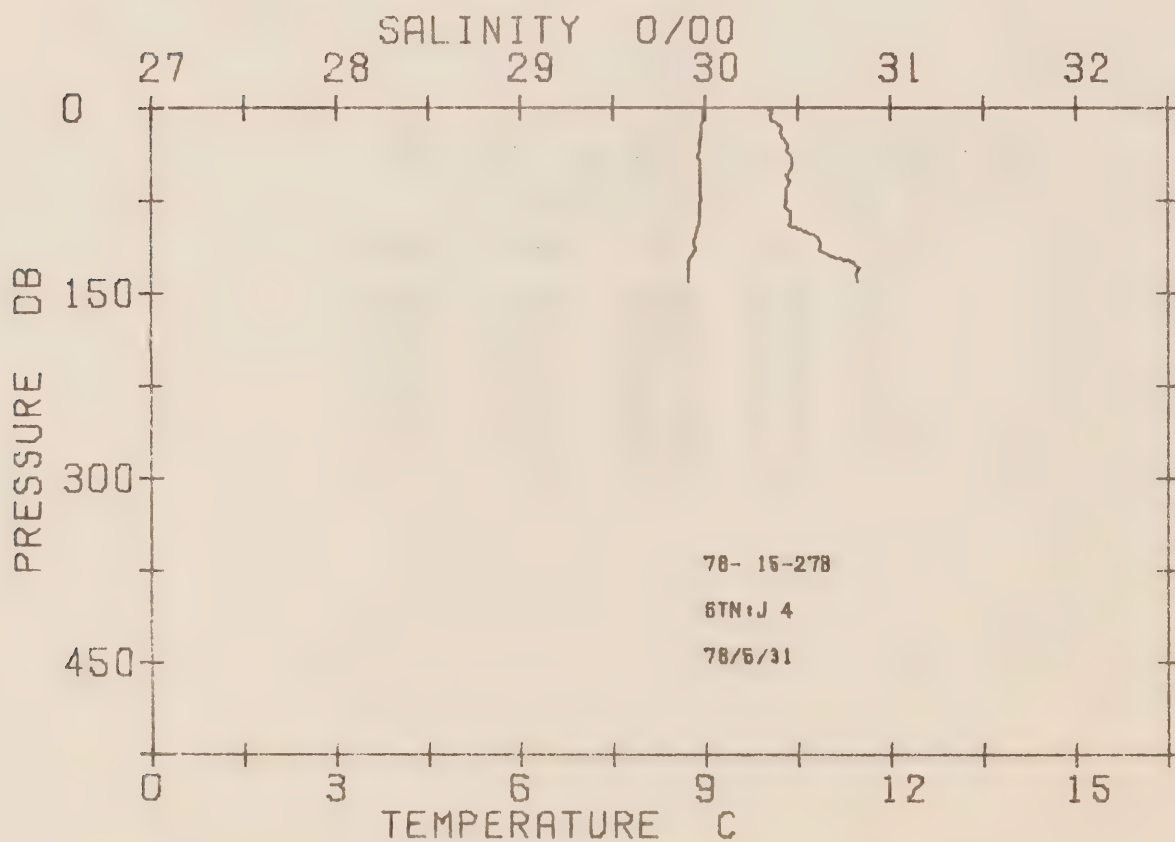
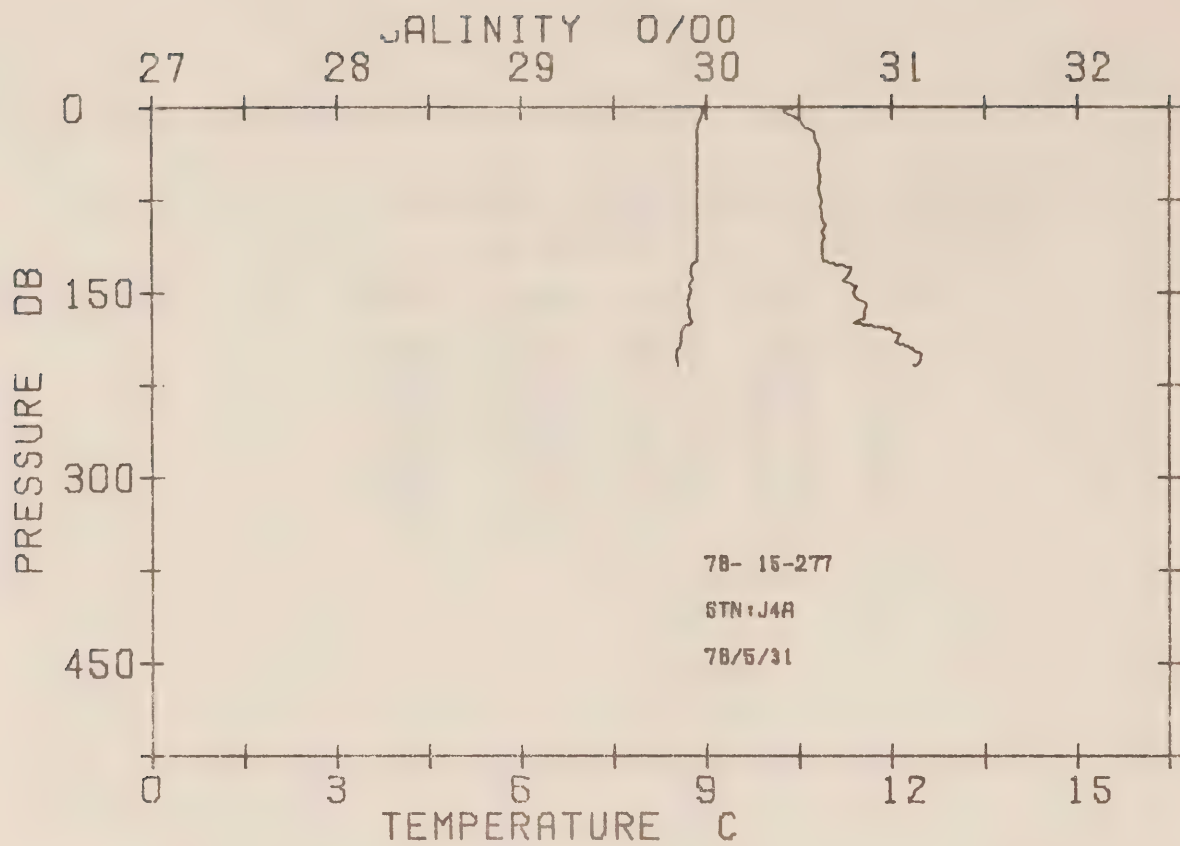


STATION J 5 CRUISE 78-15 CONS #236
 POSITION 50-24.5N 125-56.8W
 DATE 78/ 5/30 TIME 19:36:27 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.84	30.63	23.75	1480.
10	8.68	30.76	23.88	1480.
20	8.69	30.77	23.88	1480.
30	8.69	30.77	23.88	1481.
50	8.65	30.83	23.94	1481.
75	8.65	30.84	23.94	1481.
100	8.67	30.82	23.93	1482.
125	8.58	31.01	24.09	1482.

STATION J 5 CRUISE 78-15 CONS #276
 POSITION 50-24.5N 125-56.8W
 DATE 78/ 5/31 TIME 20:27:44 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.82	30.68	23.79	1480.
10	8.76	30.74	23.85	1480.
20	8.68	30.86	23.96	1480.
30	8.68	30.88	23.97	1481.
50	8.68	30.87	23.96	1481.
75	8.69	30.88	23.97	1481.
100	8.68	30.88	23.97	1482.
125	8.62	30.98	24.06	1482.

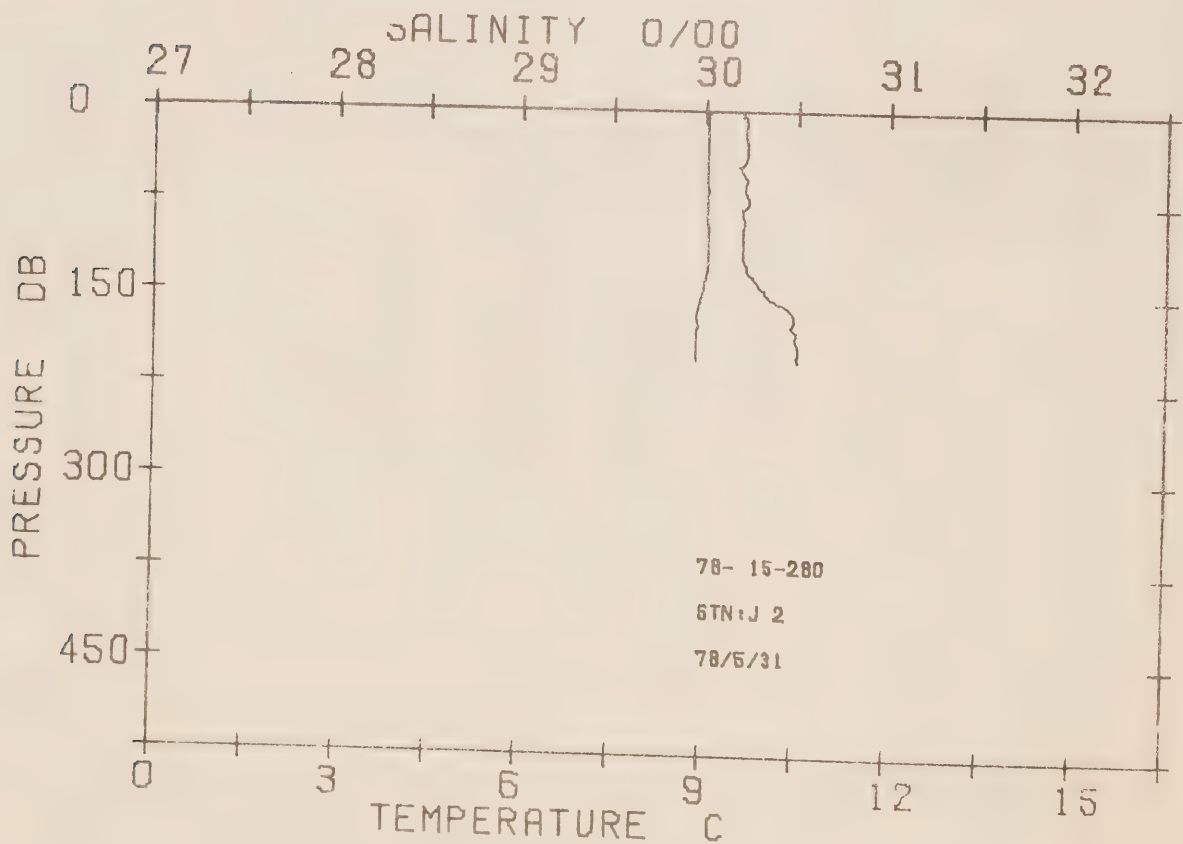
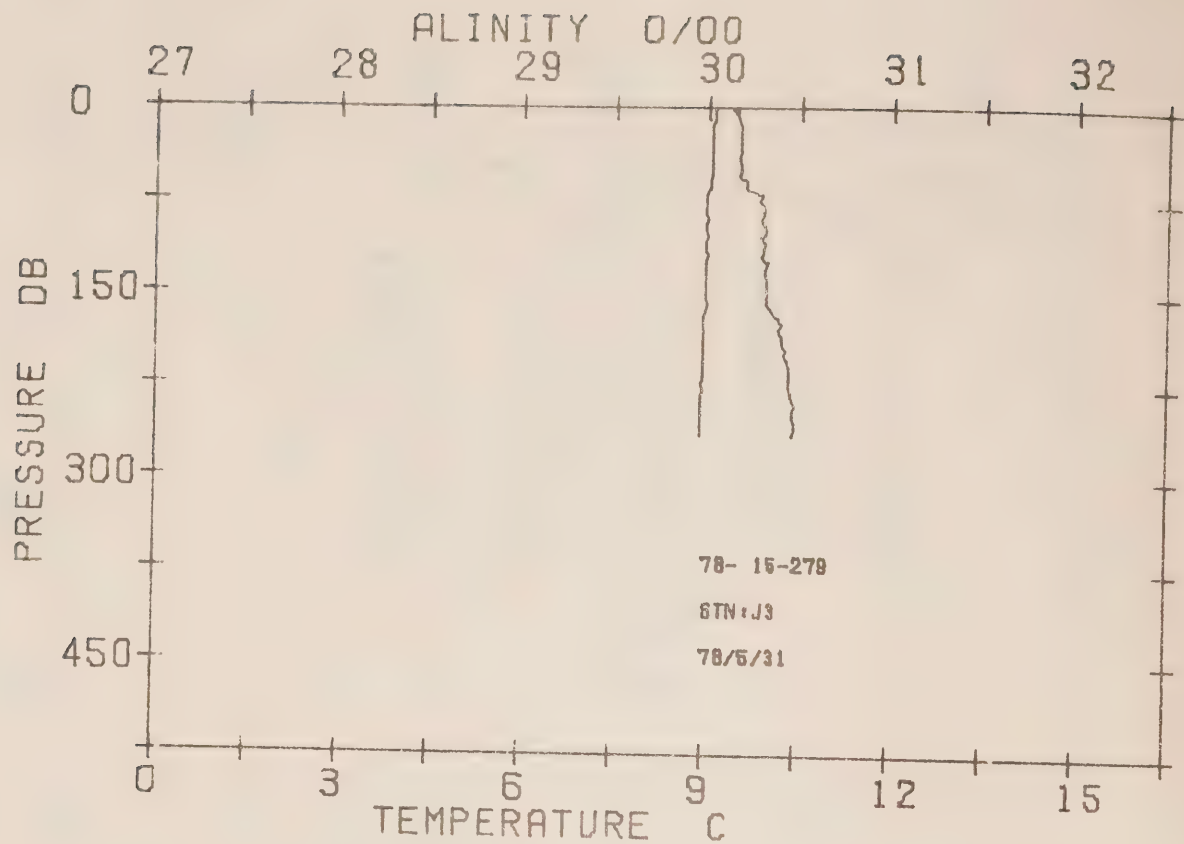


STATION J4A CRUISE 78-15 CONS #277
 POSITION 50-23.5N 125-53.4W
 DATE 78/ 5/31 TIME 20:49:48 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.94	30.47	23.62	1481.
10	8.91	30.50	23.64	1481.
20	8.85	30.58	23.71	1481.
30	8.85	30.60	23.72	1481.
50	8.85	30.60	23.72	1481.
75	8.85	30.62	23.74	1482.
100	8.83	30.63	23.75	1482.
125	8.83	30.64	23.76	1482.
150	8.74	30.79	23.89	1483.
175	8.74	30.80	23.90	1483.
200	8.51	31.16	24.22	1483.

STATION J 4 CRUISE 78-15 CONS #278
 POSITION 50-22.7N 125-47.0W
 DATE 78/ 5/31 TIME 21:18:29 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	8.97	30.35	23.51	1481.
10	8.97	30.35	23.51	1481.
20	8.93	30.41	23.57	1481.
30	8.90	30.45	23.60	1481.
50	8.91	30.46	23.61	1481.
75	8.93	30.44	23.59	1482.
100	8.89	30.54	23.67	1482.
125	8.72	30.80	23.90	1482.

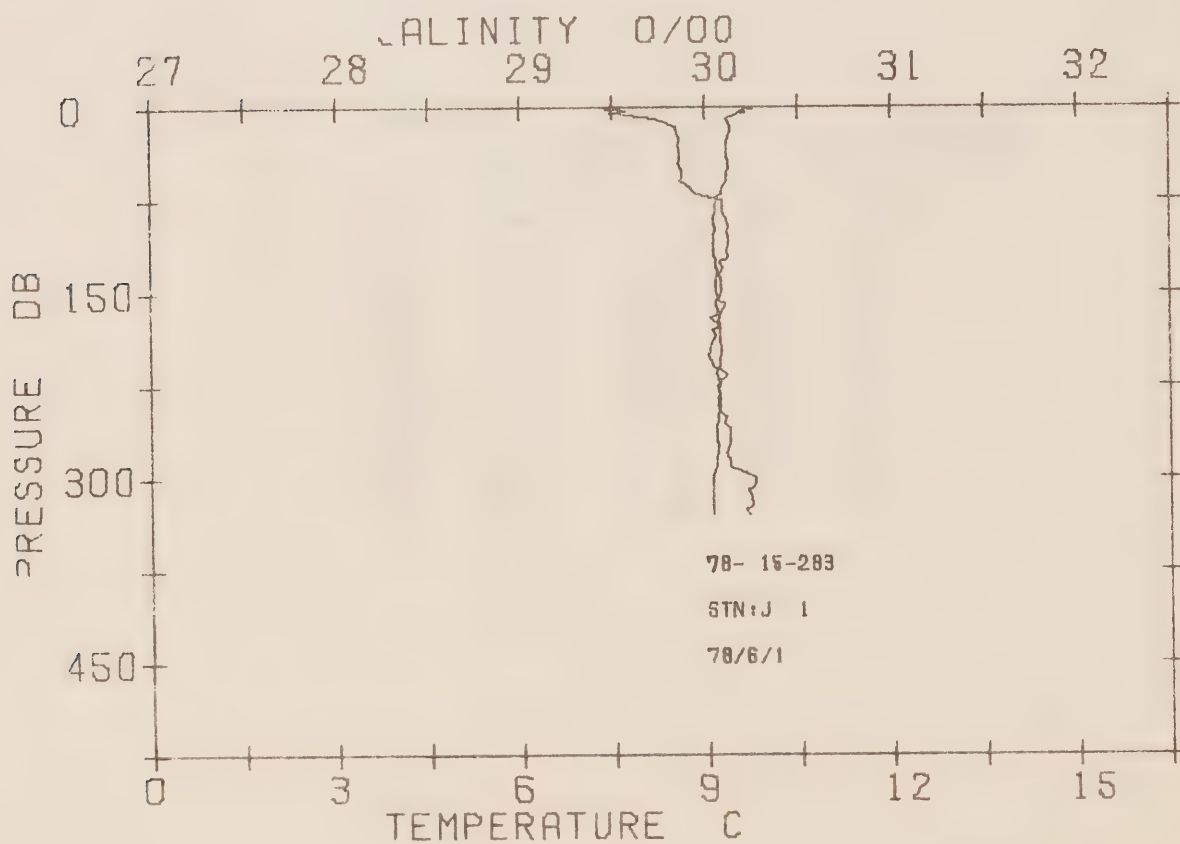
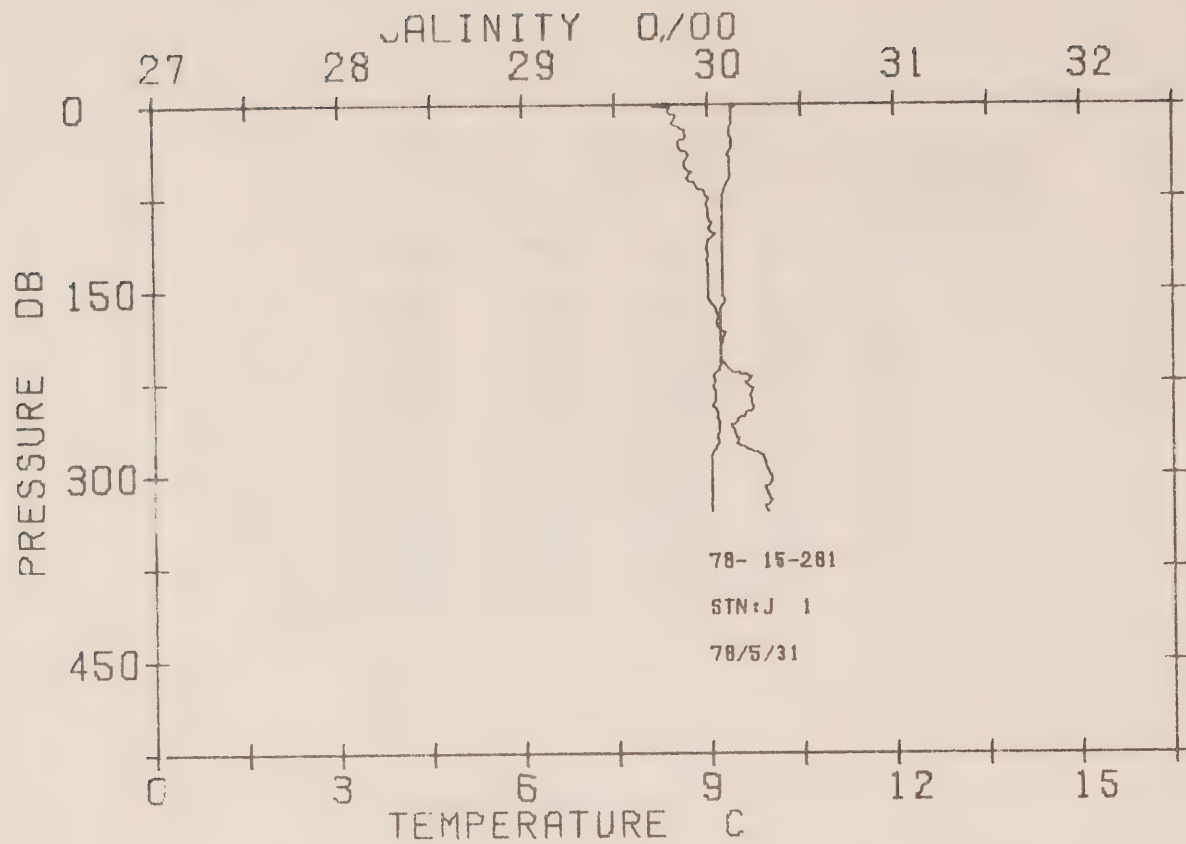


STATION J3 CRUISE 78-15 CONS #279
 POSITION 50-22.2N 125-39.0W
 DATE 78/ 5/31 TIME 21:52:12 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.10	30.15	23.34	1481.
10	9.08	30.17	23.35	1481.
20	9.07	30.18	23.37	1481.
30	9.06	30.18	23.37	1481.
50	9.06	30.18	23.37	1482.
75	8.98	30.28	23.46	1482.
100	8.98	30.32	23.49	1482.
125	8.98	30.32	23.49	1483.
150	8.98	30.32	23.49	1483.
175	8.94	30.41	23.56	1483.
200	8.93	30.42	23.58	1484.
225	8.92	30.45	23.60	1484.
250	8.92	30.47	23.61	1485.

STATION J 2 CRUISE 78-15 CONS #280
 POSITION 50-22.2N 125-33.5W
 DATE 78/ 5/31 TIME 22:34:39 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.10	30.16	23.35	1481.
10	9.02	30.23	23.41	1481.
20	9.02	30.22	23.41	1481.
30	9.03	30.23	23.41	1481.
50	9.04	30.21	23.39	1481.
75	9.04	30.24	23.42	1482.
100	9.05	30.21	23.39	1482.
125	9.05	30.23	23.41	1483.
150	8.98	30.34	23.50	1483.
175	8.90	30.47	23.62	1483.
200	8.89	30.50	23.65	1484.

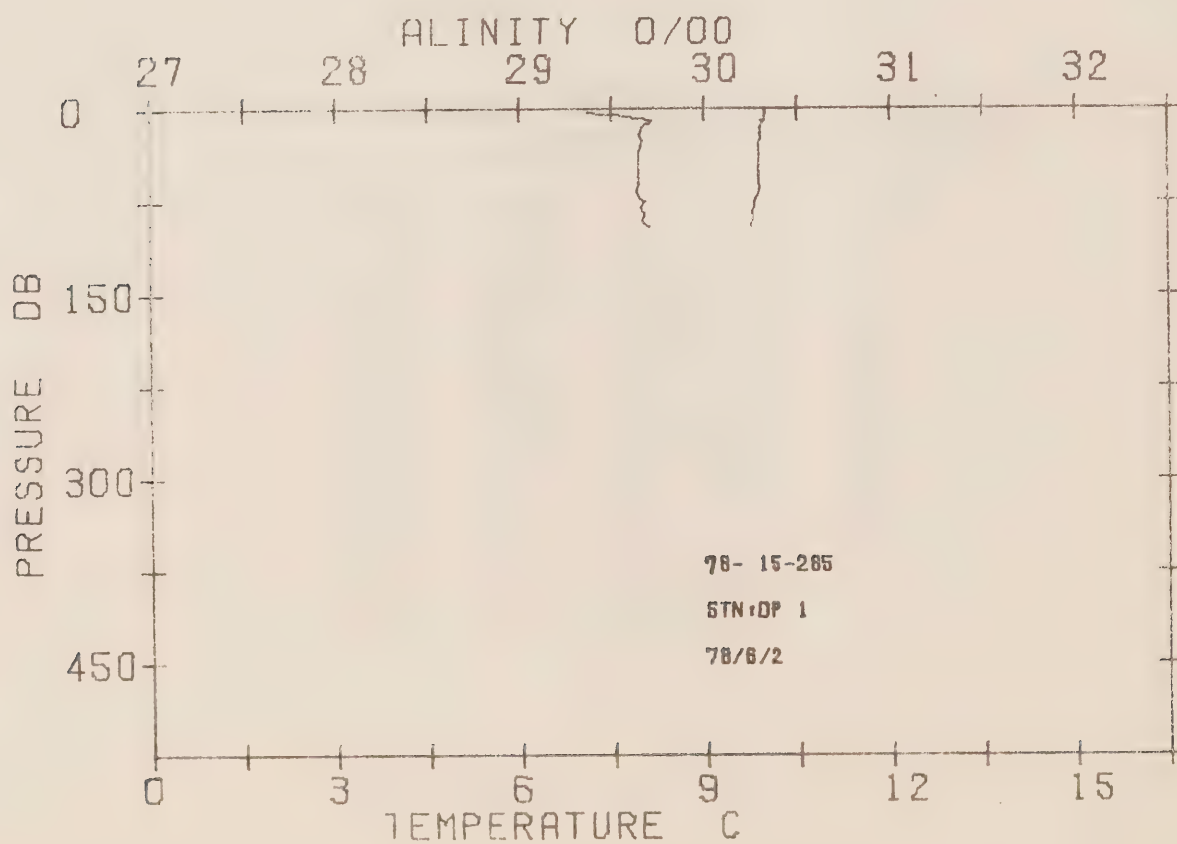
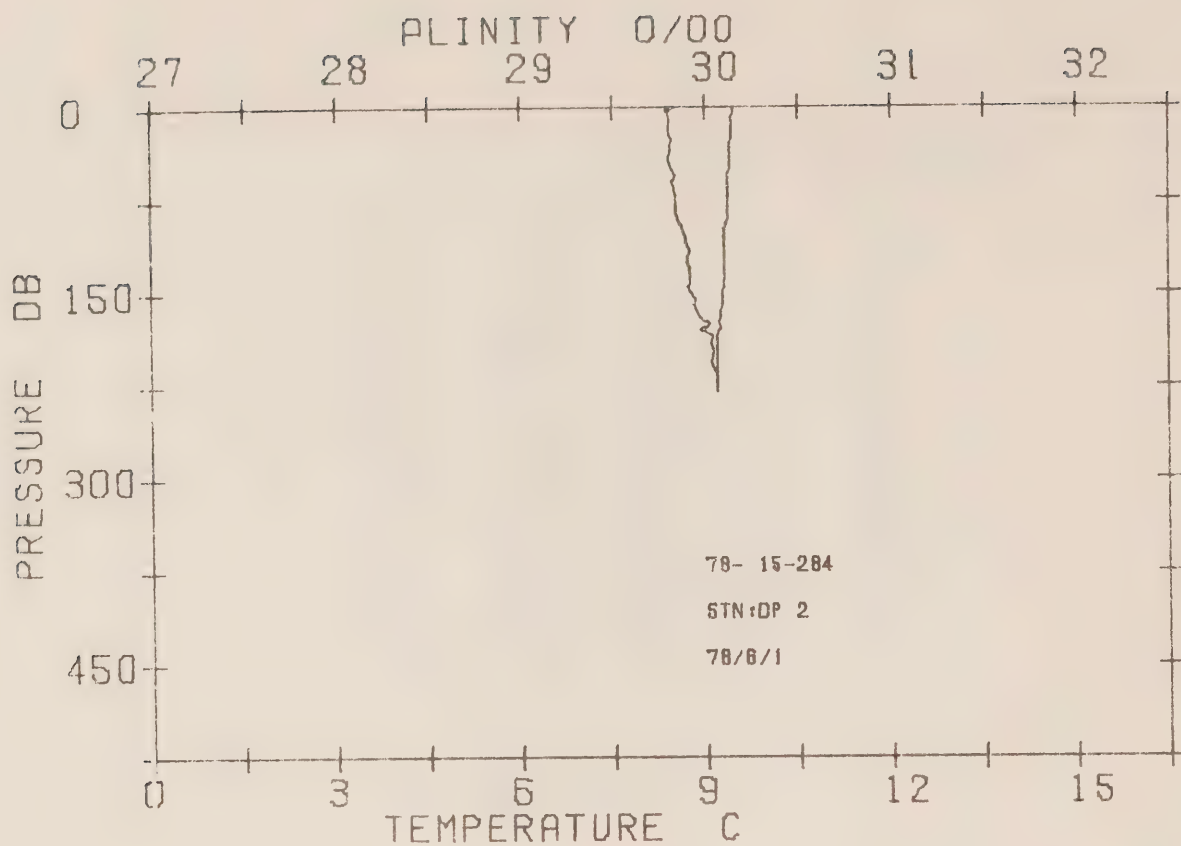


STATION J 1 CRUISE 78-15 CONS #281
 POSITION 50-20.7N 125-25.5W
 DATE 78/ 5/31 TIME 23:18:45 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.41	29.74	22.97	1481.
10	9.37	29.82	23.04	1482.
20	9.34	29.88	23.09	1482.
30	9.36	29.84	23.06	1482.
50	9.34	29.88	23.09	1482.
75	9.22	30.00	23.20	1482.
100	9.21	30.00	23.21	1483.
125	9.23	29.99	23.19	1483.
150	9.23	30.00	23.21	1484.
175	9.20	30.04	23.24	1484.
200	9.20	30.06	23.25	1484.
225	9.10	30.20	23.38	1485.
250	9.11	30.20	23.38	1485.
275	9.15	30.15	23.33	1485.
300	9.02	30.33	23.49	1486.
325	9.04	30.30	23.46	1486.

STATION J 1 CRUISE 78-15 CONS #283
 POSITION 50-20.7N 125-25.5W
 DATE 78/ 6/ 1 TIME 0:18:33 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.76	29.50	22.73	1483.
10	9.34	29.74	22.98	1481.
20	9.41	29.85	23.05	1482.
30	9.35	29.85	23.07	1482.
50	9.37	29.87	23.08	1482.
75	9.15	30.09	23.28	1482.
100	9.15	30.11	23.30	1483.
125	9.17	30.08	23.27	1483.
150	9.17	30.08	23.28	1483.
175	9.19	30.07	23.26	1484.
200	9.24	30.01	23.21	1484.
225	9.21	30.06	23.25	1485.
250	9.19	30.10	23.29	1485.
275	9.18	30.11	23.30	1486.
300	9.00	30.26	23.43	1486.
325	9.09	30.22	23.40	1486.



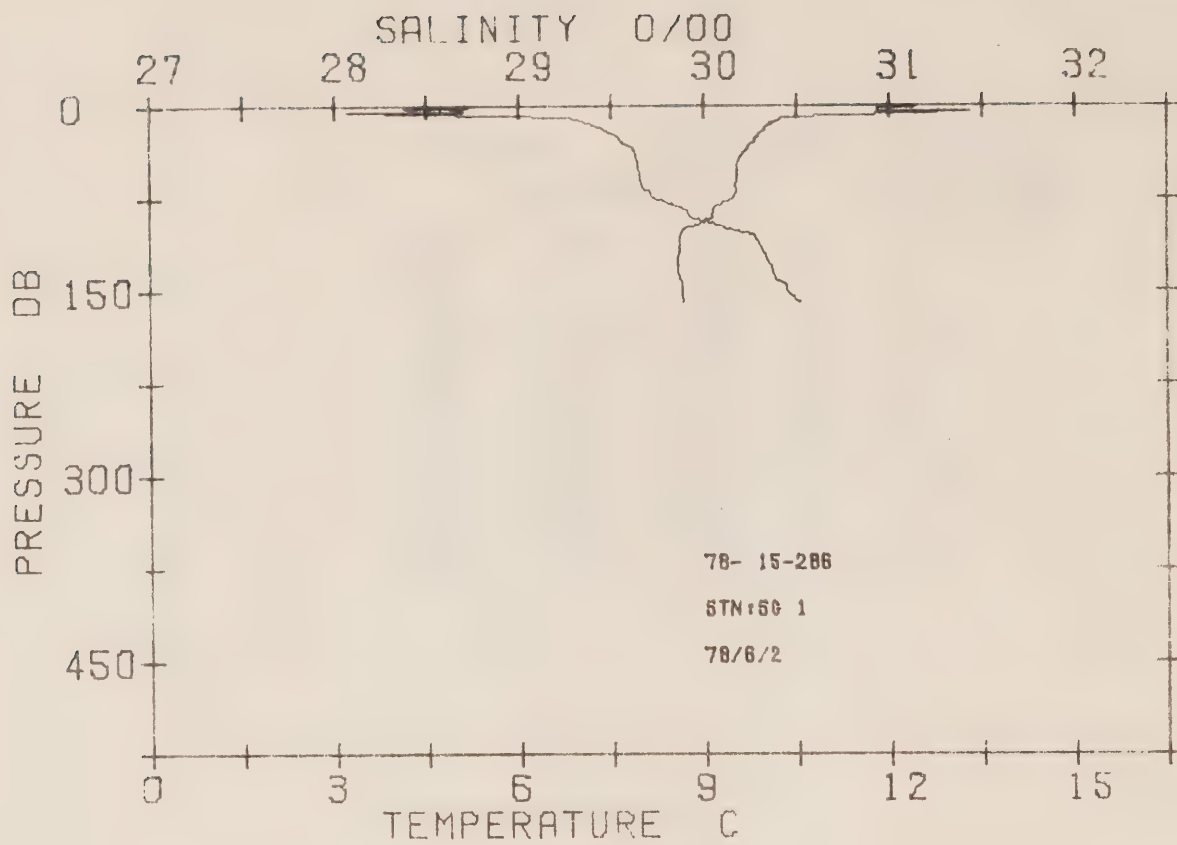
STATION DP 2 CRUISE 78-15 CONS #284
 POSITION 50-14.7N 125-23.0W
 DATE 78/ 6/ 1 TIME 1:11:28 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.46	29.81	23.02	1482.
10	9.45	29.81	23.02	1482.
20	9.43	29.80	23.02	1482.
30	9.42	29.81	23.03	1482.
50	9.40	29.82	23.03	1482.
75	9.37	29.84	23.05	1483.
100	9.31	29.89	23.11	1483.
125	9.30	29.91	23.12	1483.
150	9.28	29.93	23.14	1484.
175	9.21	30.02	23.22	1484.
200	9.20	30.04	23.24	1484.
225	9.18	30.06	23.26	1485.

STATION DP 1 CRUISE 78-15 CONS #285
 POSITION 50- 5.1N 125-16.4W
 DATE 78/ 6/ 2 TIME 10:39: 4 PST

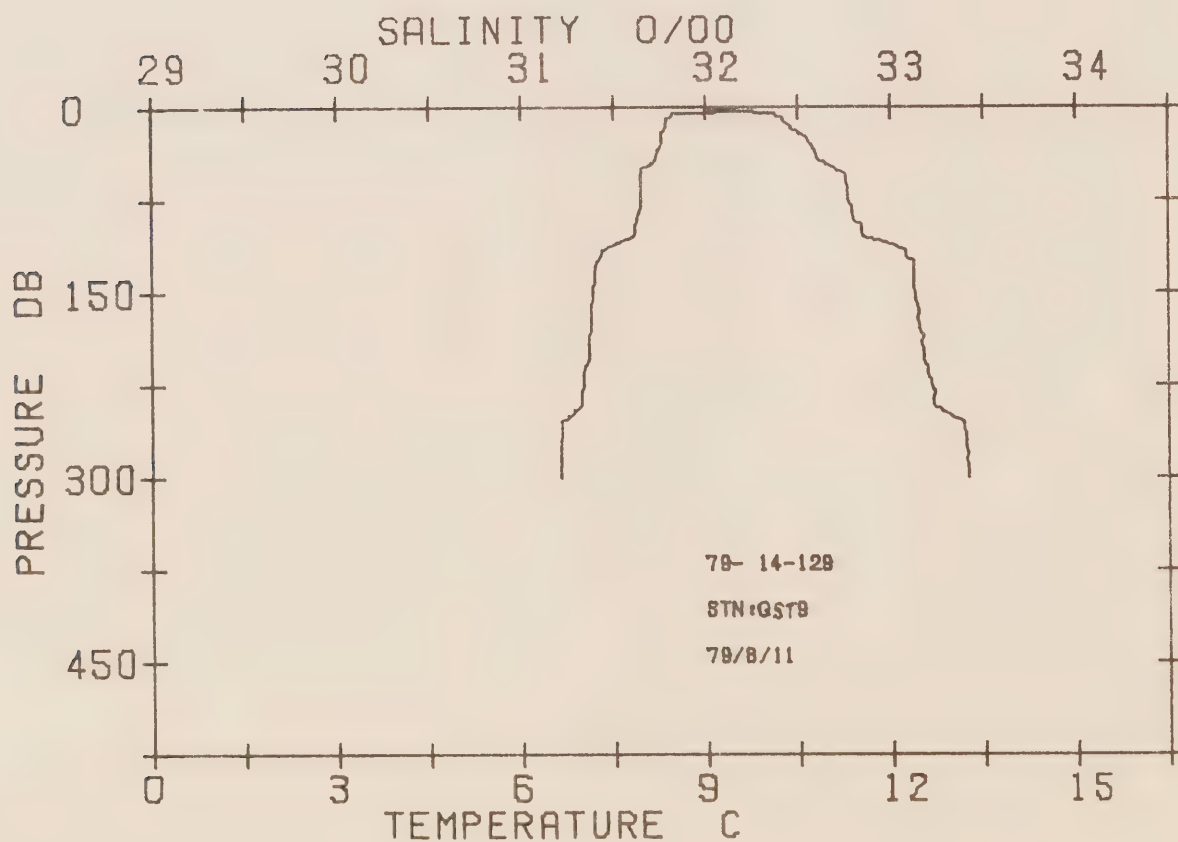
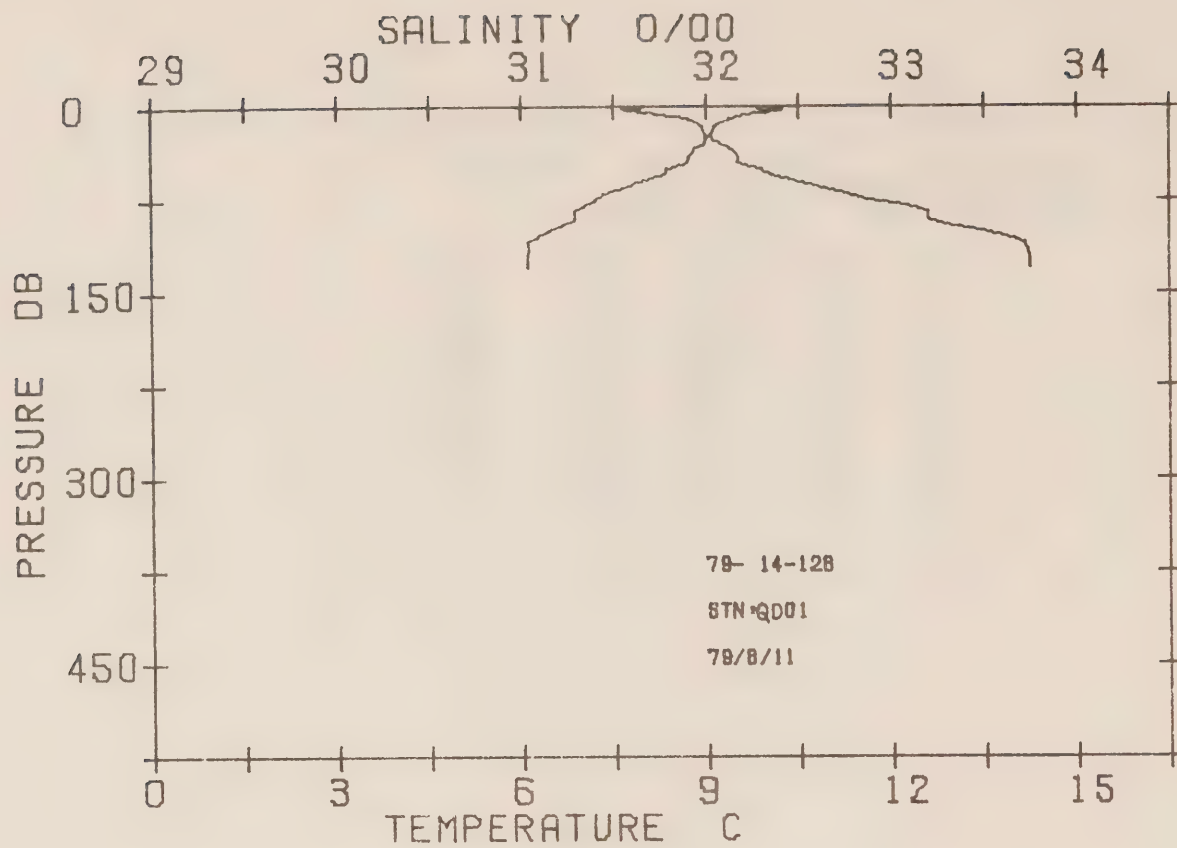
DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	9.98	29.37	22.60	1483.
10	9.96	29.72	22.87	1484.
20	9.91	29.65	22.83	1484.
30	9.89	29.65	22.84	1484.
50	9.88	29.65	22.83	1484.
75	9.81	29.68	22.86	1484.

400



STATION SG 1 CRUISE 78-15 CONS #286
POSITION 49-55.0N 125- 5.5W
DATE 78/ 6/ 2 TIME 11:36:47 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	12.02	28.66	21.70	1490.
10	10.31	29.28	22.47	1484.
20	9.96	29.48	22.69	1484.
30	9.81	29.56	22.77	1483.
50	9.53	29.65	22.88	1483.
75	9.50	29.73	22.95	1483.
100	8.70	30.14	23.39	1481.
125	8.56	30.34	23.57	1481.
150	8.63	30.45	23.65	1482.

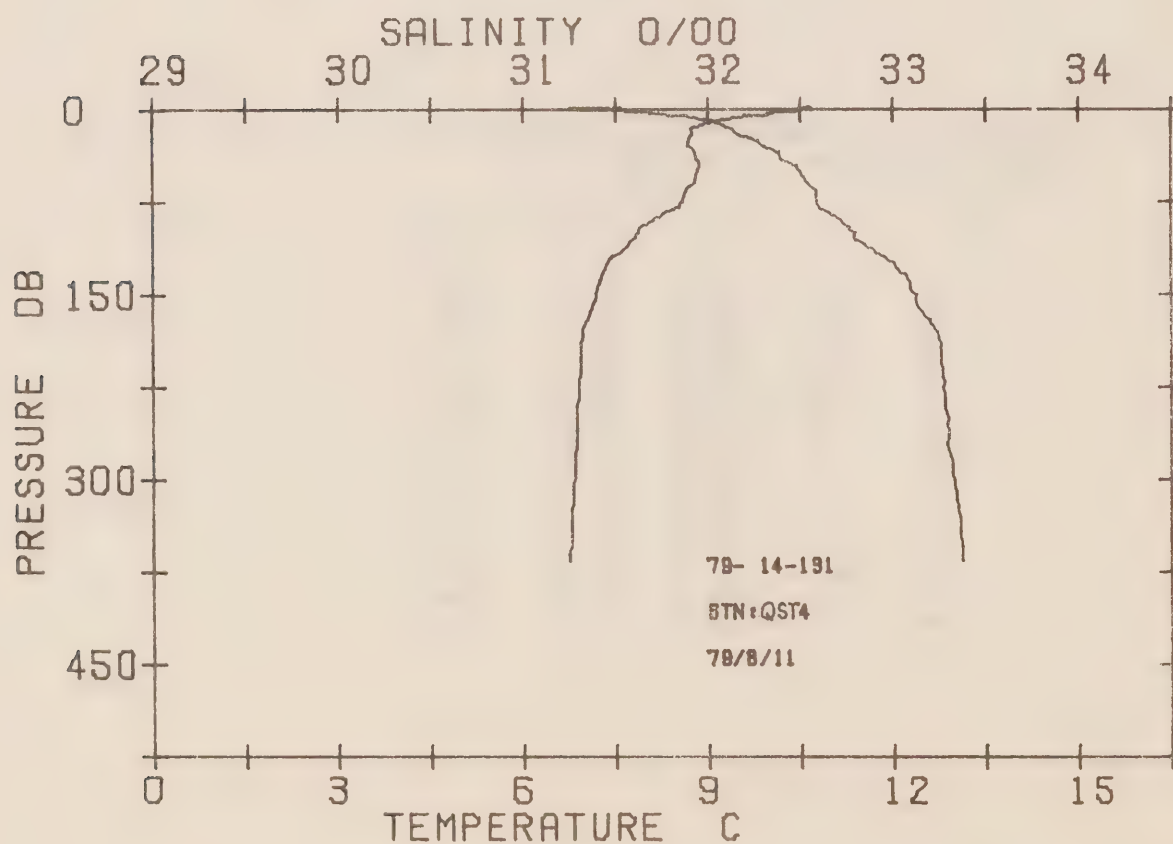
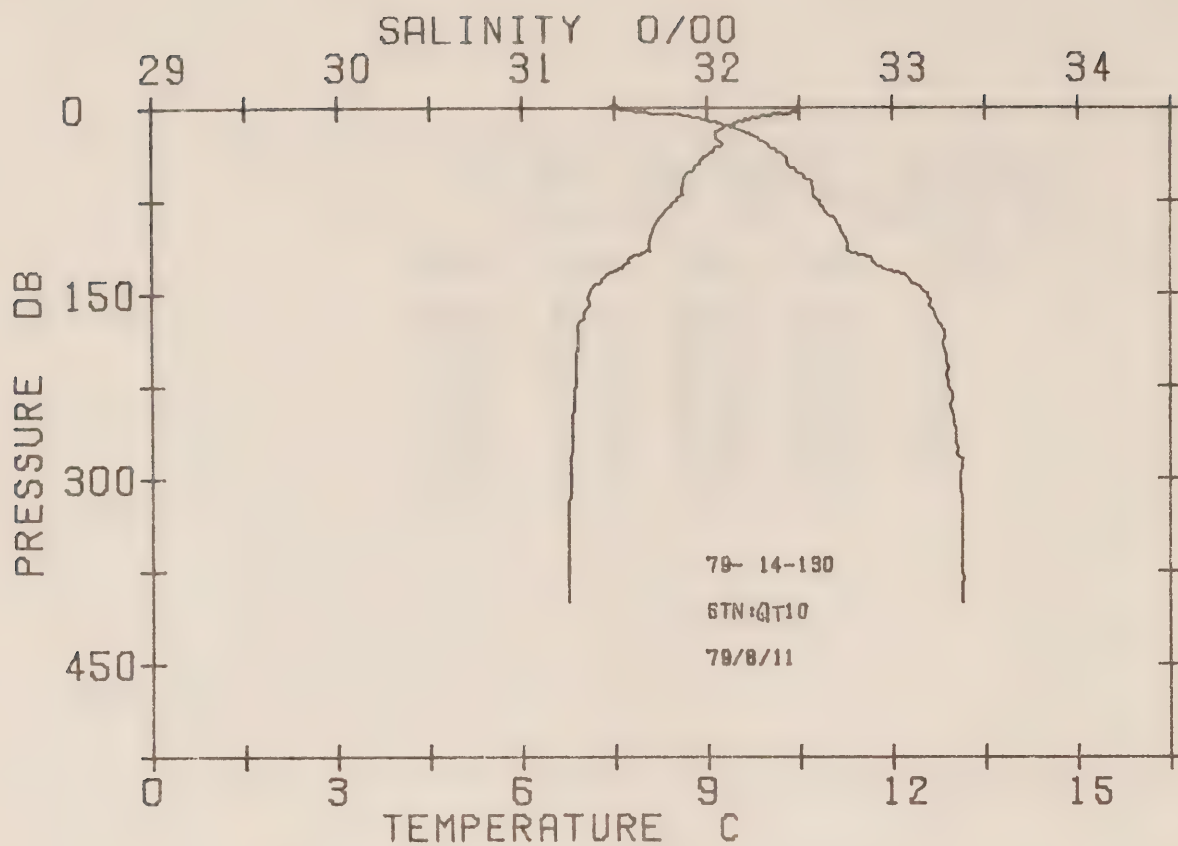


STATION qd01 CRUISE 79-14 CONS #128
 POSITION 51- 1.5N 127-54.5W
 DATE 79/ 8/11 TIME 15:54: 8 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.85	31.65	24.39	1486.
10	9.36	31.91	24.67	1484.
20	9.08	31.99	24.78	1483.
30	8.96	32.07	24.86	1483.
50	8.39	32.30	25.13	1482.
75	7.23	32.87	25.73	1478.
100	6.45	33.49	26.33	1477.
125	6.09	33.75	26.58	1476.

STATION qst9 CRUISE 79-14 CONS #129
 POSITION 50-52.6N 127-35.6W
 DATE 79/ 8/11 TIME 17:40:38 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	9.06	32.17	24.92	1483.
10	8.37	32.42	25.22	1481.
20	8.28	32.50	25.29	1481.
30	8.27	32.57	25.36	1481.
50	7.96	32.71	25.51	1481.
75	7.94	32.77	25.56	1481.
100	7.84	32.84	25.63	1481.
125	7.21	33.12	25.93	1479.
150	7.17	33.14	25.95	1480.
175	7.13	33.16	25.98	1480.
200	7.08	33.18	26.00	1480.
225	6.99	33.22	26.05	1480.
250	6.79	33.33	26.16	1480.
275	6.64	33.41	26.24	1480.
300	6.62	33.42	26.25	1480.

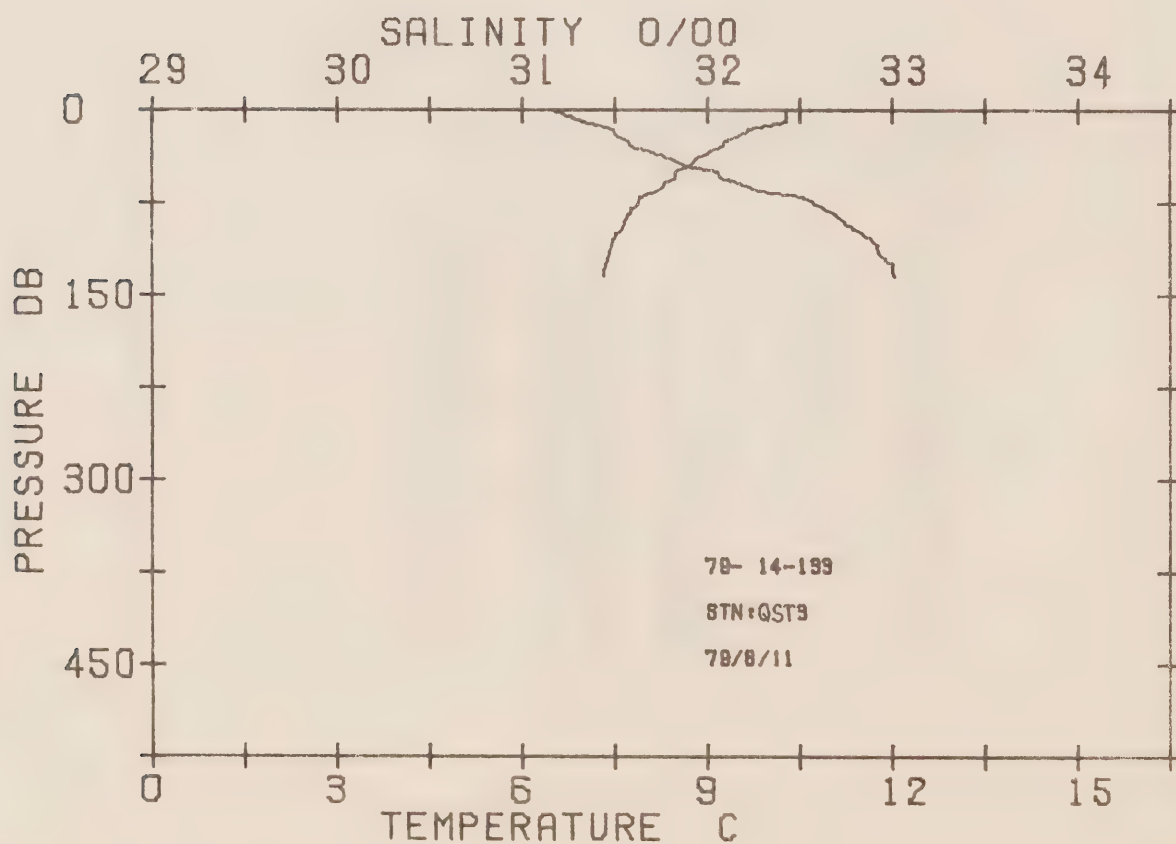
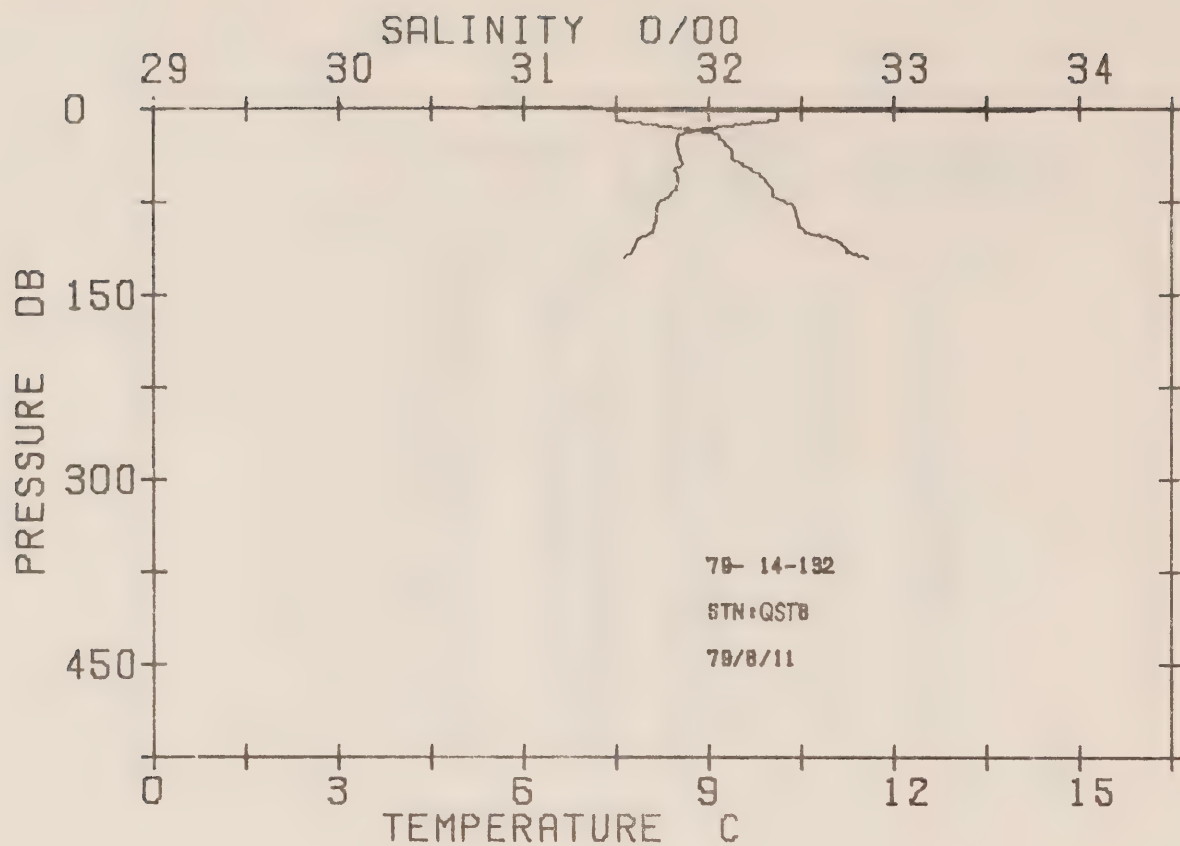


STATION qtl0 CRUISE 79-14 CONS #130
 POSITION 50-48.4N 127-35.5W
 DATE 79/ 8/11 TIME 18:37: 6 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.49	31.53	24.19	1488.
10	9.66	32.00	24.69	1485.
20	9.11	32.23	24.96	1484.
30	9.25	32.33	25.01	1485.
50	8.77	32.48	25.21	1483.
75	8.49	32.60	25.34	1483.
100	8.13	32.73	25.50	1482.
125	7.71	32.91	25.70	1481.
150	7.10	33.19	26.00	1479.
175	6.92	33.26	26.09	1479.
200	6.89	33.29	26.11	1480.
225	6.87	33.30	26.12	1480.
250	6.82	33.33	26.15	1480.
275	6.81	33.35	26.17	1481.
300	6.77	33.36	26.18	1481.
325	6.76	33.37	26.19	1481.
350	6.75	33.38	26.20	1482.
375	6.74	33.38	26.20	1482.
400	6.74	33.38	26.20	1482.

STATION qst4 CRUISE 79-14 CONS #131
 POSITION 50-47.0N 127-29.0W
 DATE 79/ 8/11 TIME 20:43:29 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.44	31.60	24.25	1488.
10	9.10	32.03	24.80	1483.
20	8.74	32.17	24.97	1482.
30	8.69	32.30	25.08	1483.
50	8.83	32.50	25.22	1484.
75	8.59	32.59	25.32	1483.
100	7.89	32.79	25.58	1481.
125	7.39	33.01	25.82	1480.
150	7.20	33.12	25.93	1480.
175	7.01	33.22	26.04	1480.
200	6.94	33.26	26.08	1480.
225	6.92	33.27	26.09	1480.
250	6.88	33.30	26.12	1480.
275	6.87	33.30	26.12	1481.
300	6.83	33.33	26.15	1481.
325	6.79	33.35	26.17	1481.
350	6.77	33.37	26.19	1482.

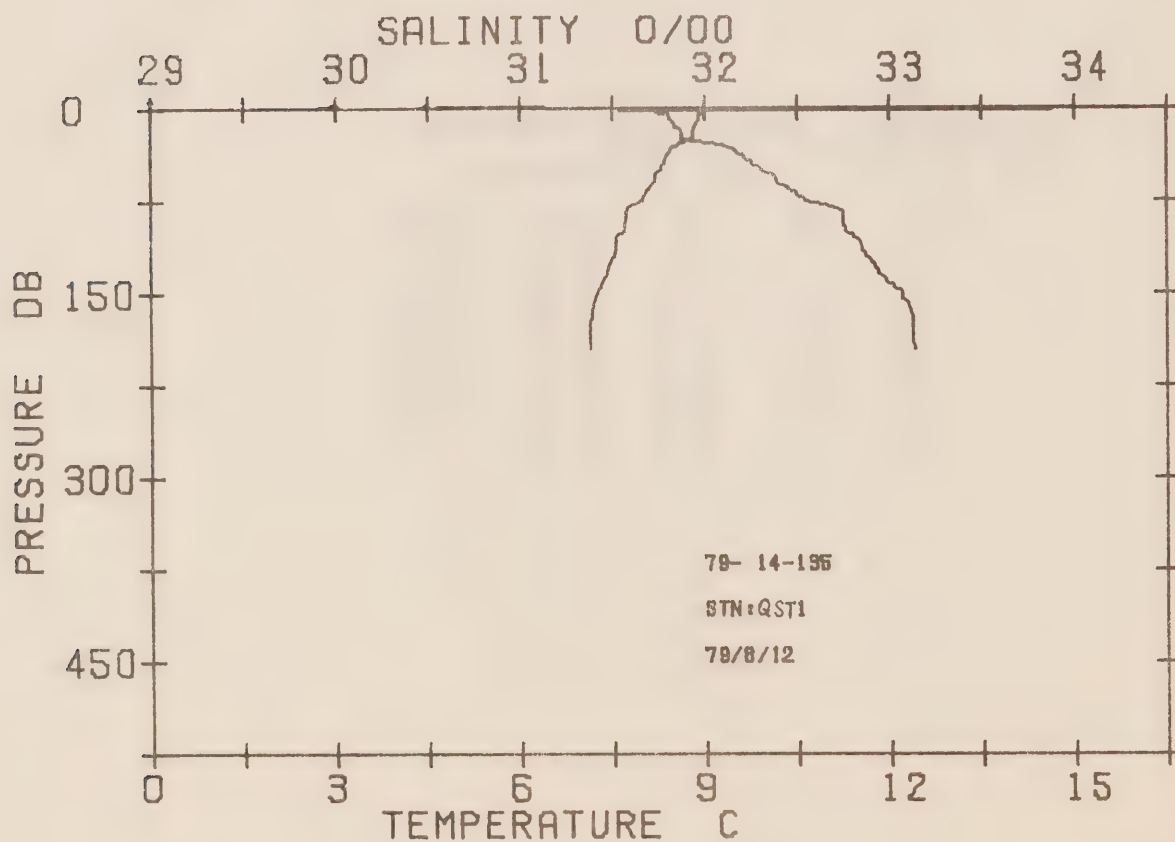
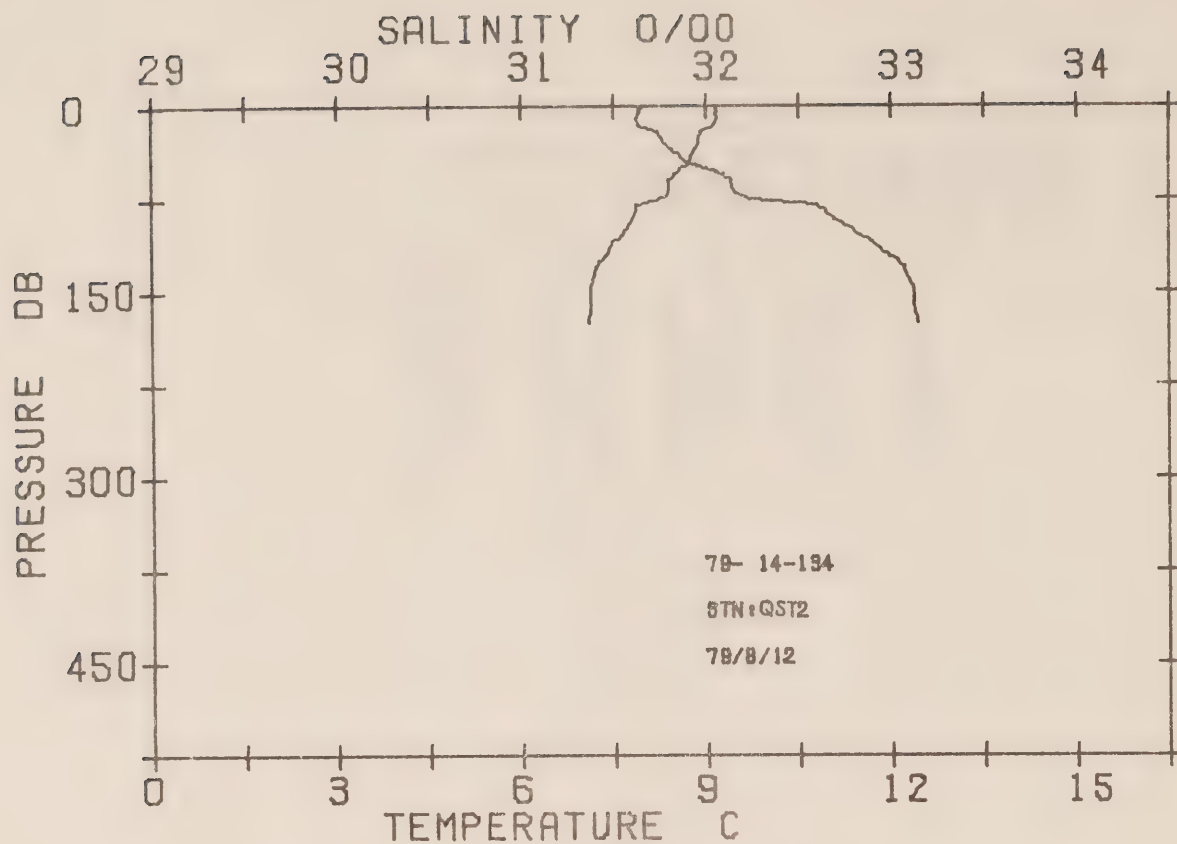


STATION qst8 CRUISE 79-14 CONS #132
 POSITION 50-50.9N 127-30.0W
 DATE 79/ 8/11 TIME 21:45:36 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.15	31.46	24.19	1486.
10	10.12	31.50	24.23	1487.
20	8.54	32.04	24.90	1481.
30	8.48	32.09	24.95	1481.
50	8.43	32.24	25.07	1482.
75	8.23	32.42	25.24	1482.
100	8.09	32.52	25.34	1482.

STATION qst3 CRUISE 79-14 CONS #133
 POSITION 50-51.0N 127-20.0W
 DATE 79/ 8/11 TIME 22:51:53 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0*	10.29	31.17	23.94	1487.
10	10.28	31.33	24.07	1487.
20	9.53	31.51	24.33	1485.
30	9.22	31.59	24.44	1484.
50	8.47	32.06	24.92	1482.
75	7.86	32.57	25.41	1480.
100	7.54	32.84	25.67	1480.
125	7.33	33.00	25.82	1480.

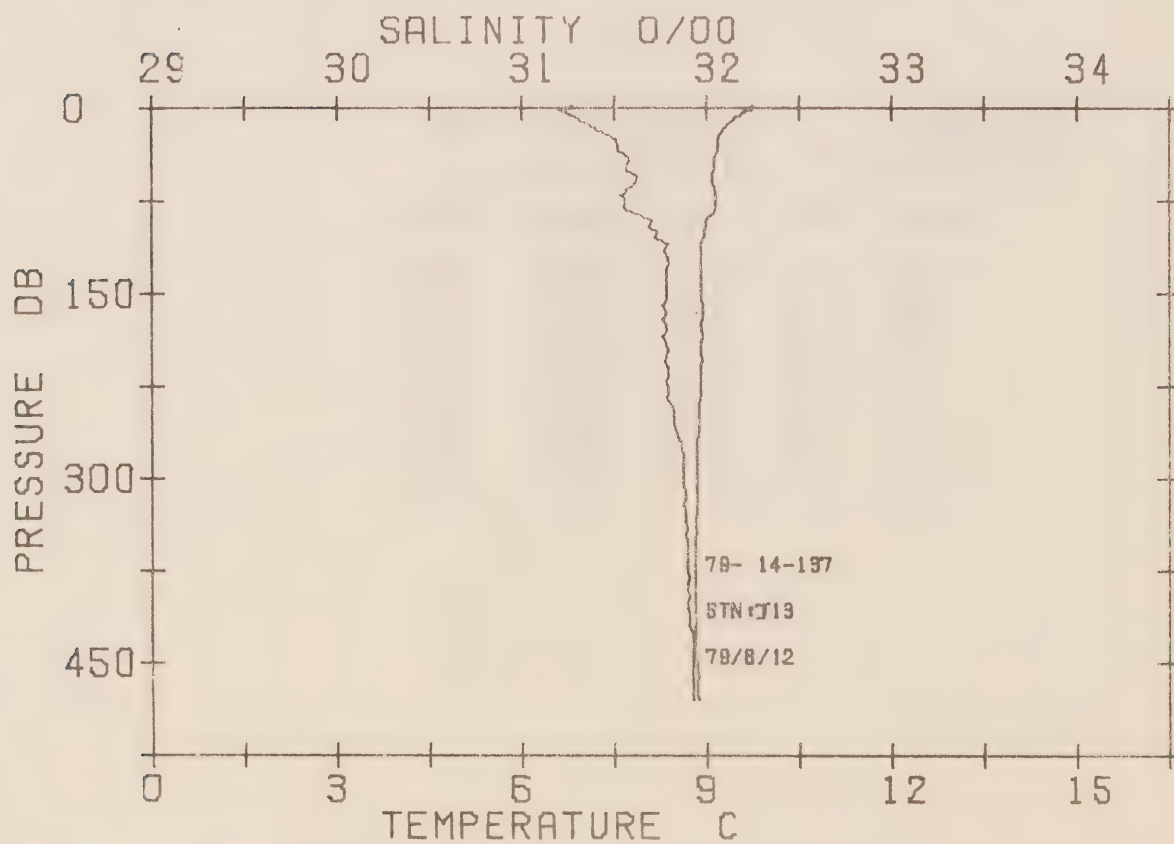
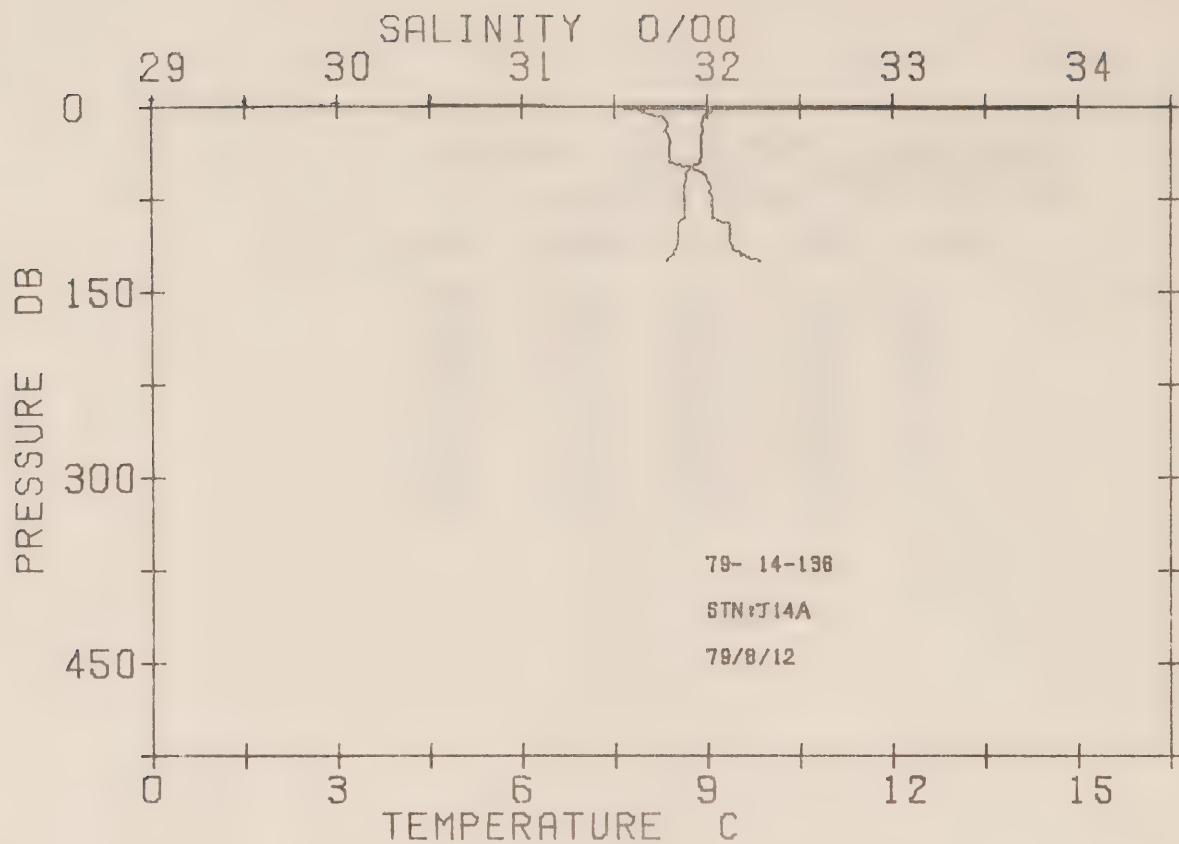


STATION qst2 CRUISE 79-14 CONS #134
 POSITION 50-45.0N 127- 8.2W
 DATE 79/ 8/12 TIME 0:14:13 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.16	31.64	24.49	1483.
10	9.20	31.63	24.47	1483.
20	8.90	31.74	24.61	1482.
30	8.86	31.78	24.64	1482.
50	8.58	32.00	24.86	1482.
75	8.25	32.25	25.11	1482.
100	7.68	32.80	25.62	1480.
125	7.27	33.04	25.87	1480.
150	7.12	33.13	25.96	1480.
175	7.10	33.15	25.98	1480.

STATION qst1 CRUISE 79-14 CONS #135
 POSITION 50-41.9N 126-55.5W
 DATE 79/ 8/12 TIME 1:25:11 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.14	31.60	24.47	1483.
10	8.90	31.81	24.66	1482.
20	8.82	31.87	24.72	1482.
30	8.57	32.09	24.94	1482.
50	8.27	32.30	25.14	1481.
75	7.99	32.54	25.37	1481.
100	7.68	32.77	25.59	1480.
125	7.48	32.91	25.73	1480.
150	7.24	33.07	25.89	1480.
175	7.13	33.13	25.95	1480.

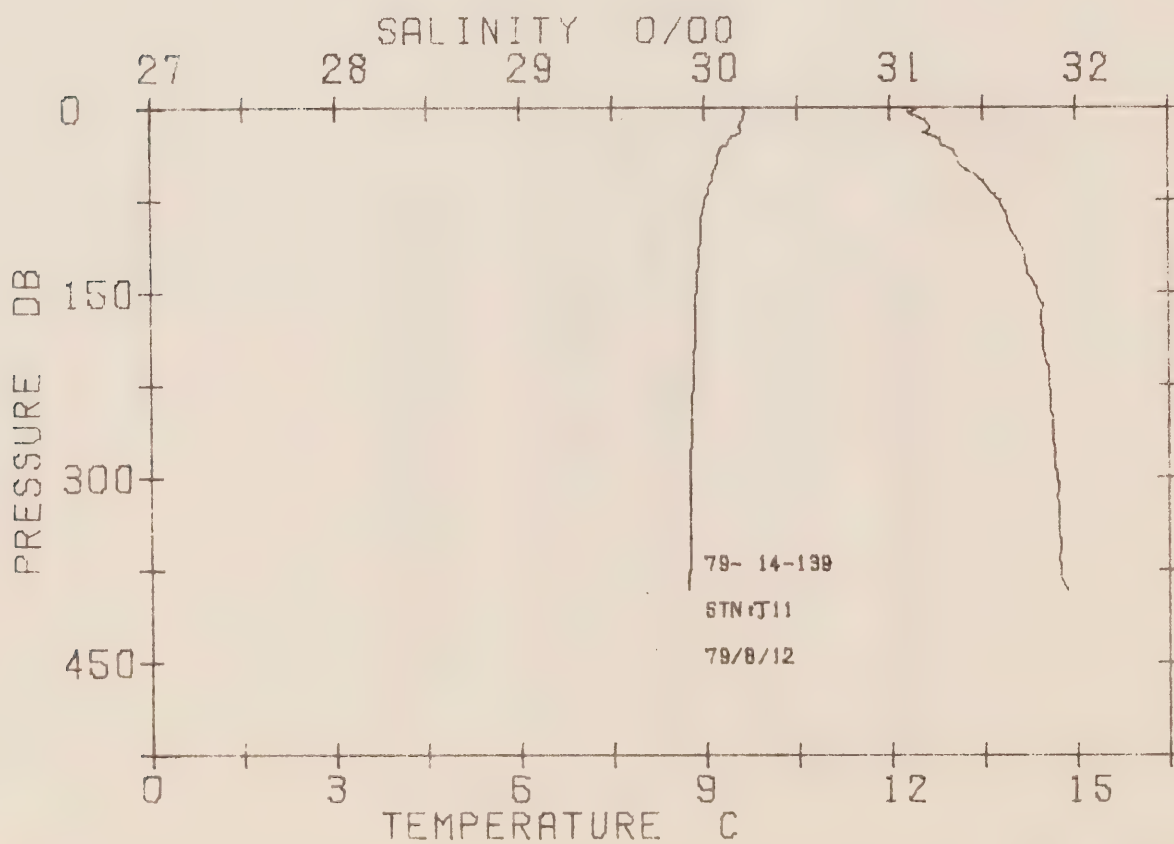
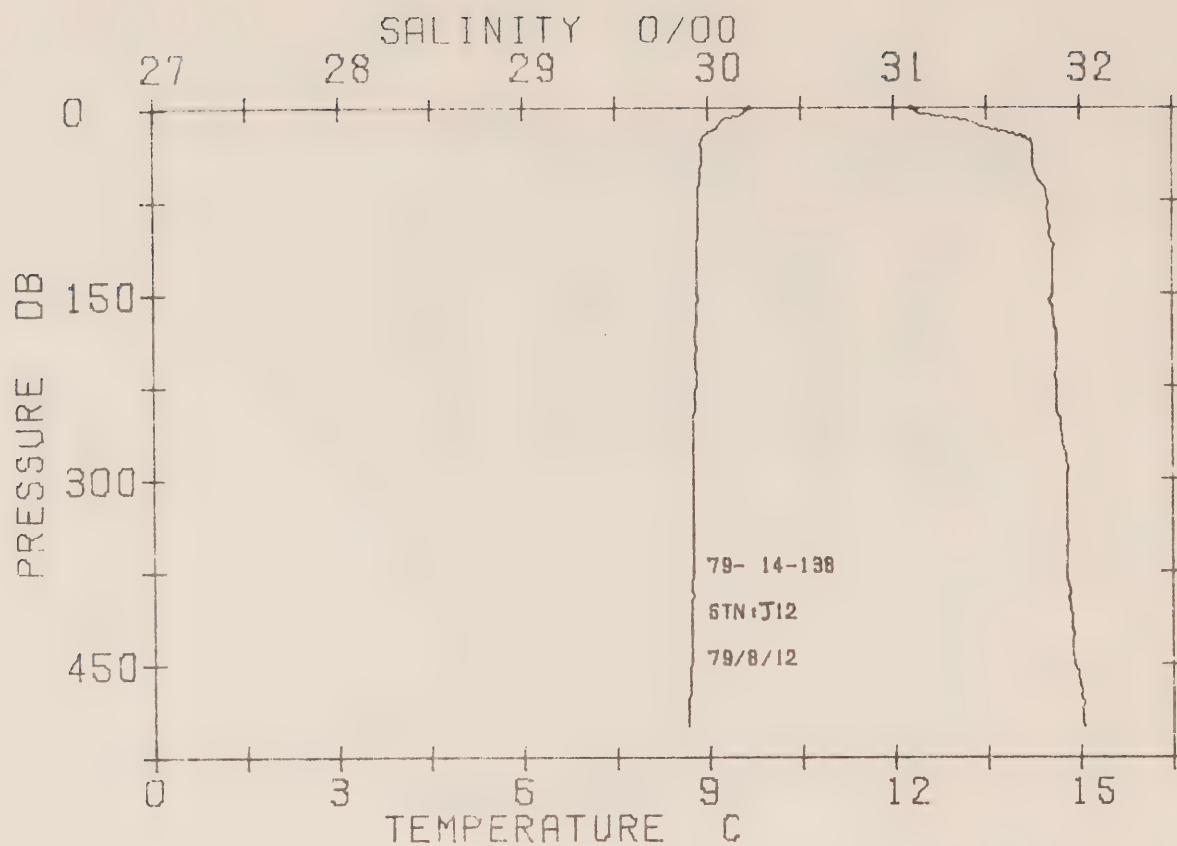


STATION j14a CRUISE 79-14 CONS #136
 POSITION 50-36.4N 126-50.0W
 DATE 79/ 8/12 TIME 2:32:59 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.10	31.56	24.44	1483.
10	8.94	31.77	24.63	1482.
20	8.94	31.77	24.63	1483.
30	8.91	31.80	24.66	1483.
50	8.74	31.92	24.77	1483.
75	8.62	32.03	24.87	1483.
100	8.53	32.12	24.97	1483.
125	8.33	32.28	25.12	1483.

STATION j13 CRUISE 79-14 CONS #137
 POSITION 50-33.3N 126-40.0W
 DATE 79/ 8/12 TIME 3:14:41 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.74	31.20	24.06	1485.
10	9.43	31.31	24.19	1484.
20	9.26	31.44	24.32	1483.
30	9.18	31.52	24.39	1483.
50	9.14	31.56	24.43	1484.
75	9.16	31.56	24.43	1484.
100	8.97	31.73	24.59	1484.
125	8.91	31.79	24.64	1484.
150	8.91	31.78	24.64	1485.
175	8.91	31.78	24.64	1485.
200	8.92	31.78	24.63	1486.
225	8.91	31.79	24.65	1486.
250	8.88	31.82	24.68	1486.
275	8.85	31.86	24.71	1487.
300	8.85	31.87	24.72	1487.
325	8.85	31.89	24.73	1487.
350	8.82	31.90	24.74	1488.
375	8.82	31.90	24.75	1488.
400	8.80	31.90	24.75	1488.
425	8.80	31.93	24.77	1489.
450	8.78	31.95	24.79	1489.
475	8.78	31.95	24.79	1490.

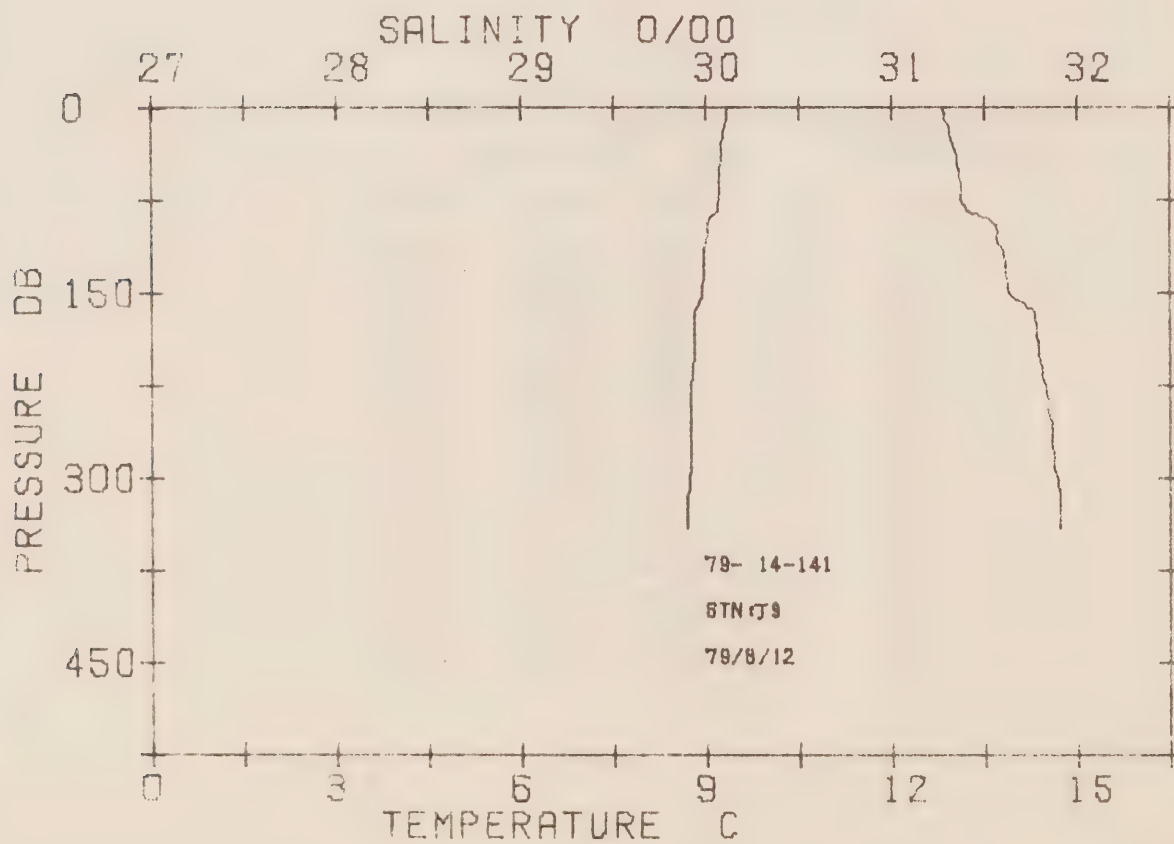
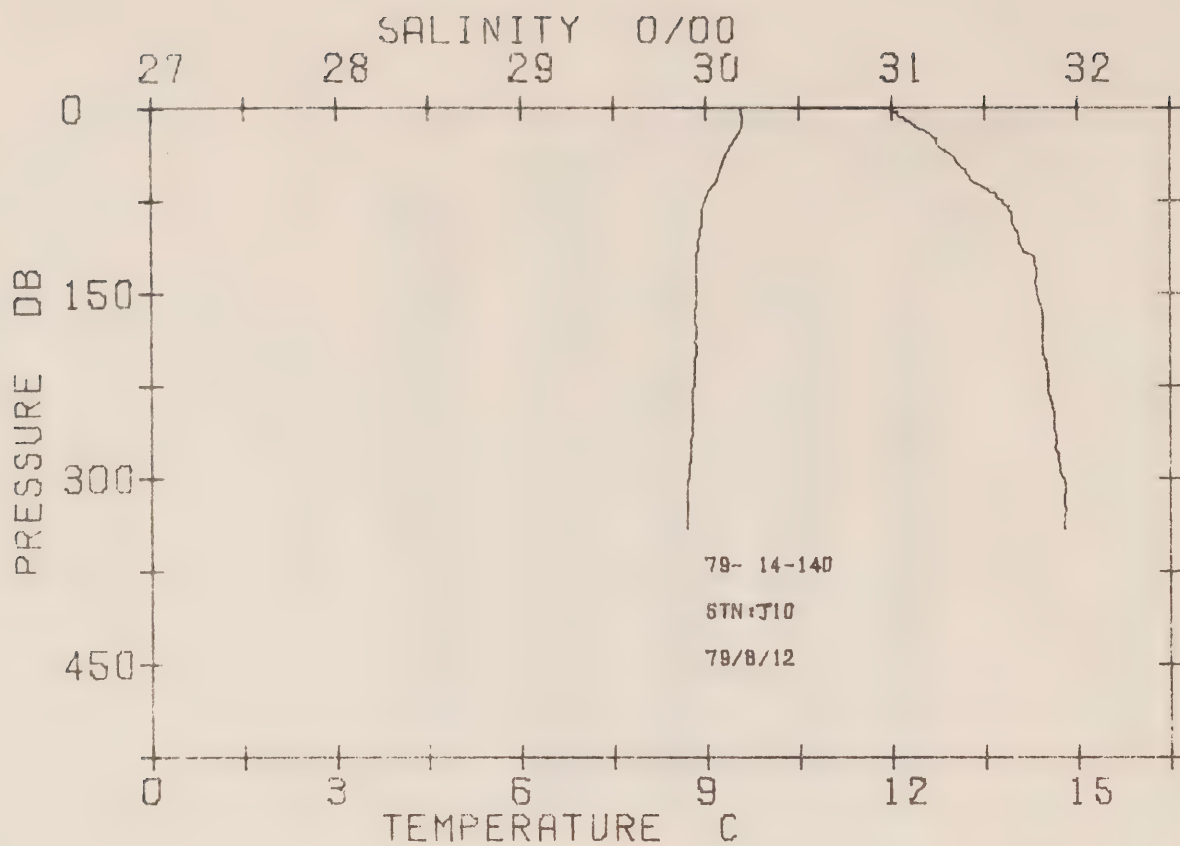


STATION j12 CRUISE 79-14 CONS #138
 POSITION 50-31.7N 126-41.0W
 DATE 79/ 8/12 TIME 4:21:44 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.69	31.15	24.03	1484.
10	9.26	31.40	24.29	1483.
20	8.99	31.65	24.52	1483.
30	8.89	31.75	24.62	1483.
50	8.89	31.76	24.62	1483.
75	8.83	31.83	24.69	1483.
100	8.83	31.83	24.69	1484.
125	8.81	31.85	24.71	1484.
150	8.81	31.85	24.71	1484.
175	8.81	31.86	24.72	1485.
200	8.79	31.87	24.73	1485.
225	8.80	31.87	24.73	1486.
250	8.76	31.90	24.75	1486.
275	8.75	31.92	24.77	1486.
300	8.74	31.93	24.78	1487.
325	8.74	31.93	24.78	1487.
350	8.75	31.94	24.79	1487.
375	8.75	31.93	24.78	1488.
400	8.73	31.95	24.80	1488.
425	8.71	31.97	24.82	1489.
450	8.71	31.97	24.82	1489.
475	8.68	32.00	24.85	1489.
500	8.66	32.02	24.86	1490.

STATION j11 CRUISE 79-14 CONS #139
 POSITION 50-30.0N 126-30.0W
 DATE 79/ 8/12 TIME 5:53:46 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.64	31.08	23.98	1484.
10	9.61	31.19	24.07	1484.
20	9.59	31.19	24.07	1484.
30	9.38	31.28	24.18	1484.
50	9.20	31.41	24.31	1484.
75	9.00	31.59	24.48	1484.
100	8.93	31.66	24.54	1484.
125	8.90	31.73	24.60	1484.
150	8.86	31.79	24.65	1484.
175	8.84	31.81	24.68	1485.
200	8.82	31.83	24.69	1485.
225	8.80	31.85	24.71	1486.
250	8.79	31.87	24.72	1486.
275	8.77	31.89	24.74	1486.
300	8.75	31.90	24.76	1487.
325	8.75	31.91	24.77	1487.
350	8.74	31.92	24.77	1487.
375	8.74	31.92	24.78	1488.

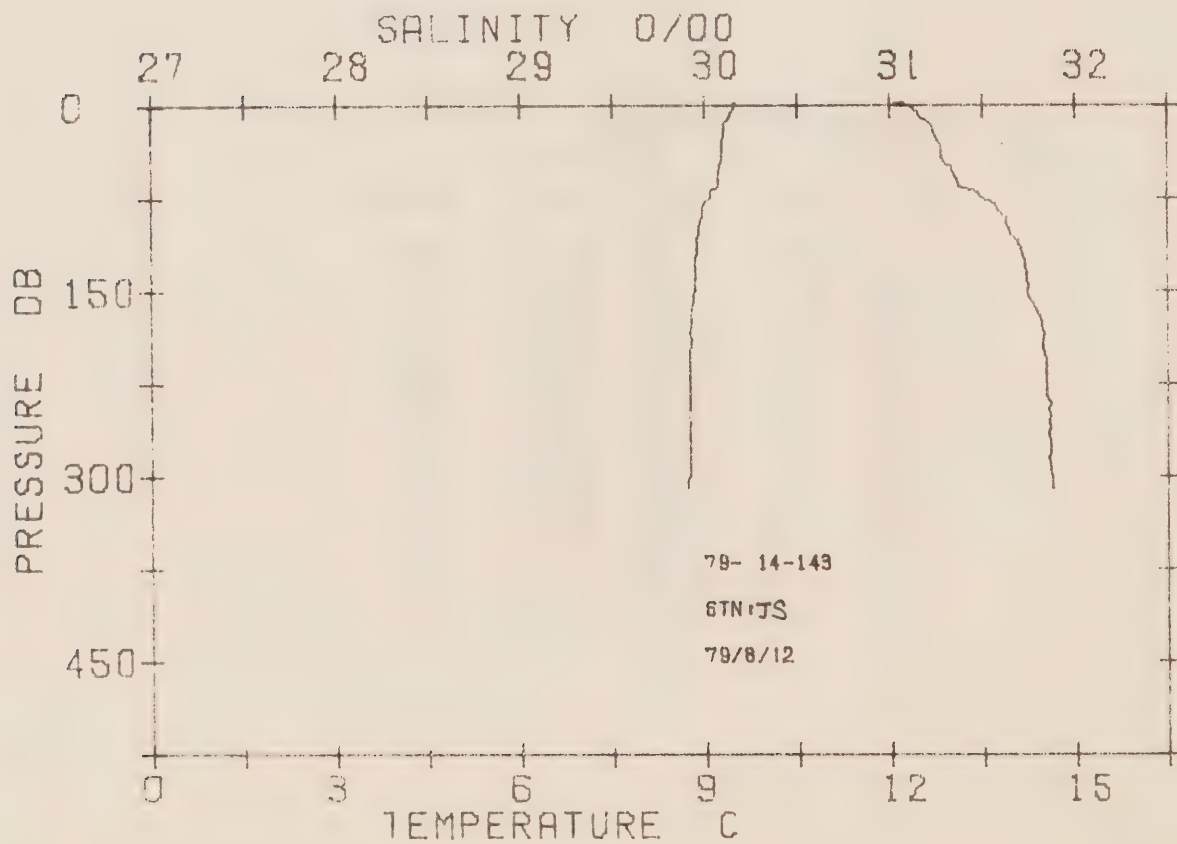
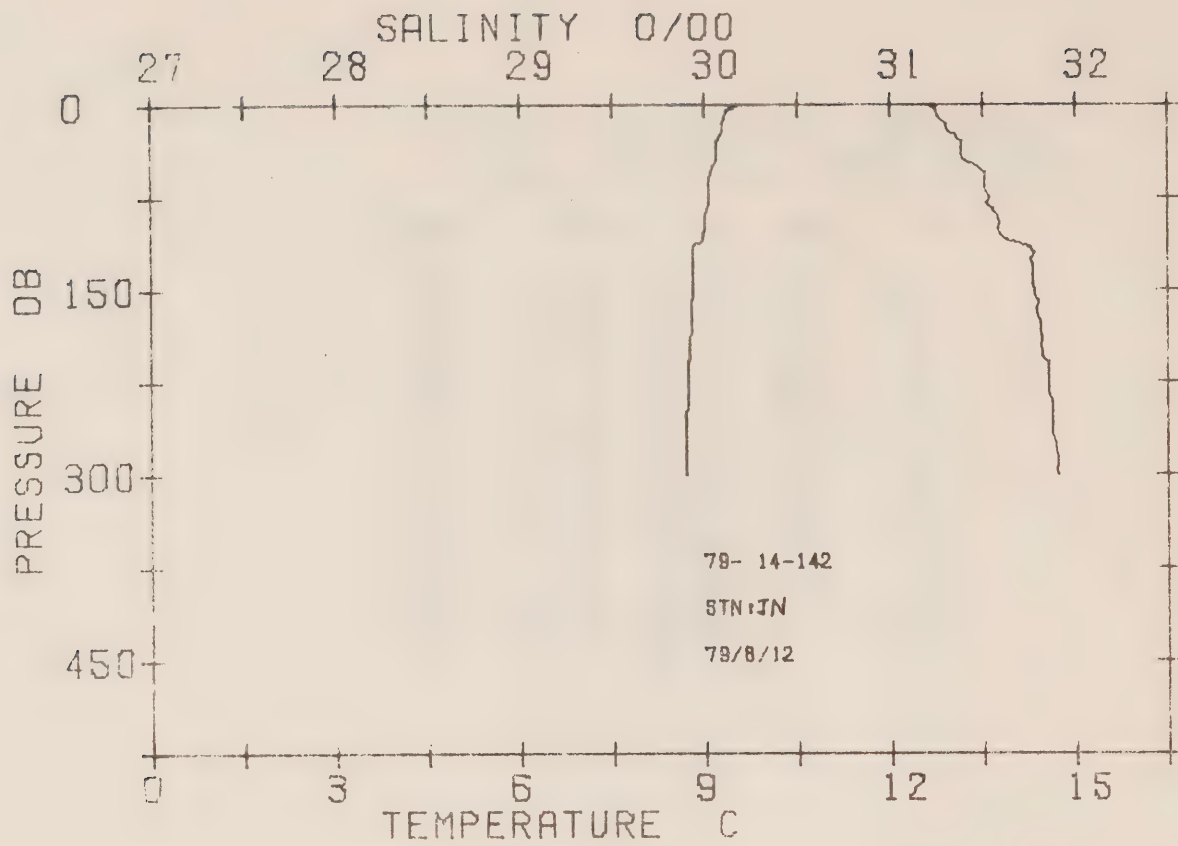


STATION j10 CRUISE 79-14 CONS #140
 POSITION 50-29.7N 126-18.7W
 DATE 79/ 8/12 TIME 7: 1: 8 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.55	31.00	23.93	1484.
10	9.58	31.07	23.98	1484.
20	9.57	31.21	24.09	1484.
30	9.43	31.25	24.15	1484.
50	9.24	31.40	24.29	1484.
75	9.00	31.59	24.48	1484.
100	8.91	31.68	24.56	1484.
125	8.85	31.77	24.64	1484.
150	8.84	31.78	24.65	1484.
175	8.82	31.81	24.68	1485.
200	8.83	31.81	24.68	1485.
225	8.80	31.84	24.71	1486.
250	8.77	31.87	24.73	1486.
275	8.76	31.88	24.74	1486.
300	8.71	31.93	24.78	1487.
325	8.70	31.94	24.80	1487.

STATION j9 CRUISE 79-14 CONS #141
 POSITION 50-28.5N 126-10.7W
 DATE 79/ 8/12 TIME 8: 4:38 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.36	31.27	24.18	1483.
10	9.34	31.28	24.18	1483.
20	9.29	31.31	24.22	1483.
30	9.26	31.33	24.24	1483.
50	9.23	31.36	24.26	1484.
75	9.22	31.38	24.28	1484.
100	9.02	31.57	24.46	1484.
125	8.97	31.61	24.50	1484.
150	8.95	31.64	24.52	1485.
175	8.81	31.78	24.65	1485.
200	8.81	31.79	24.67	1485.
225	8.75	31.83	24.70	1485.
250	8.75	31.85	24.72	1486.
275	8.74	31.86	24.73	1486.
300	8.72	31.90	24.76	1487.
325	8.69	31.91	24.78	1487.

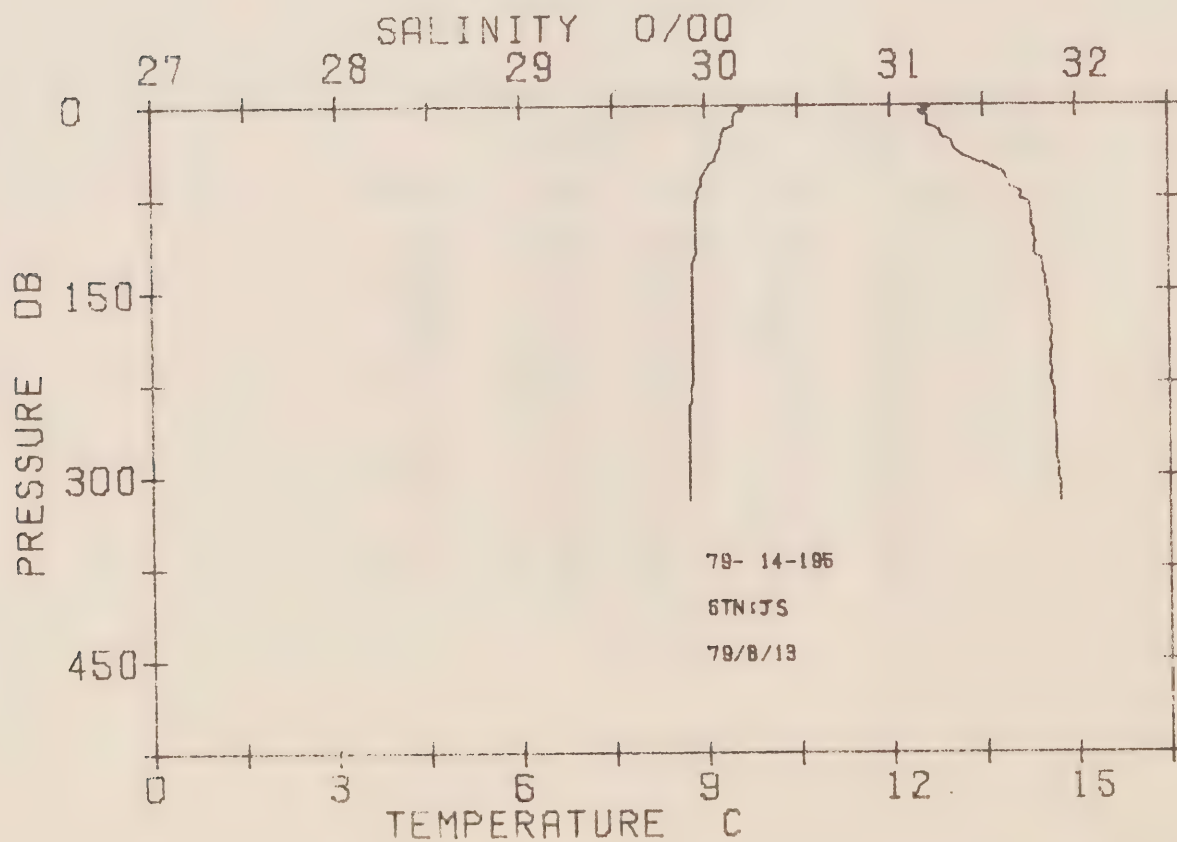
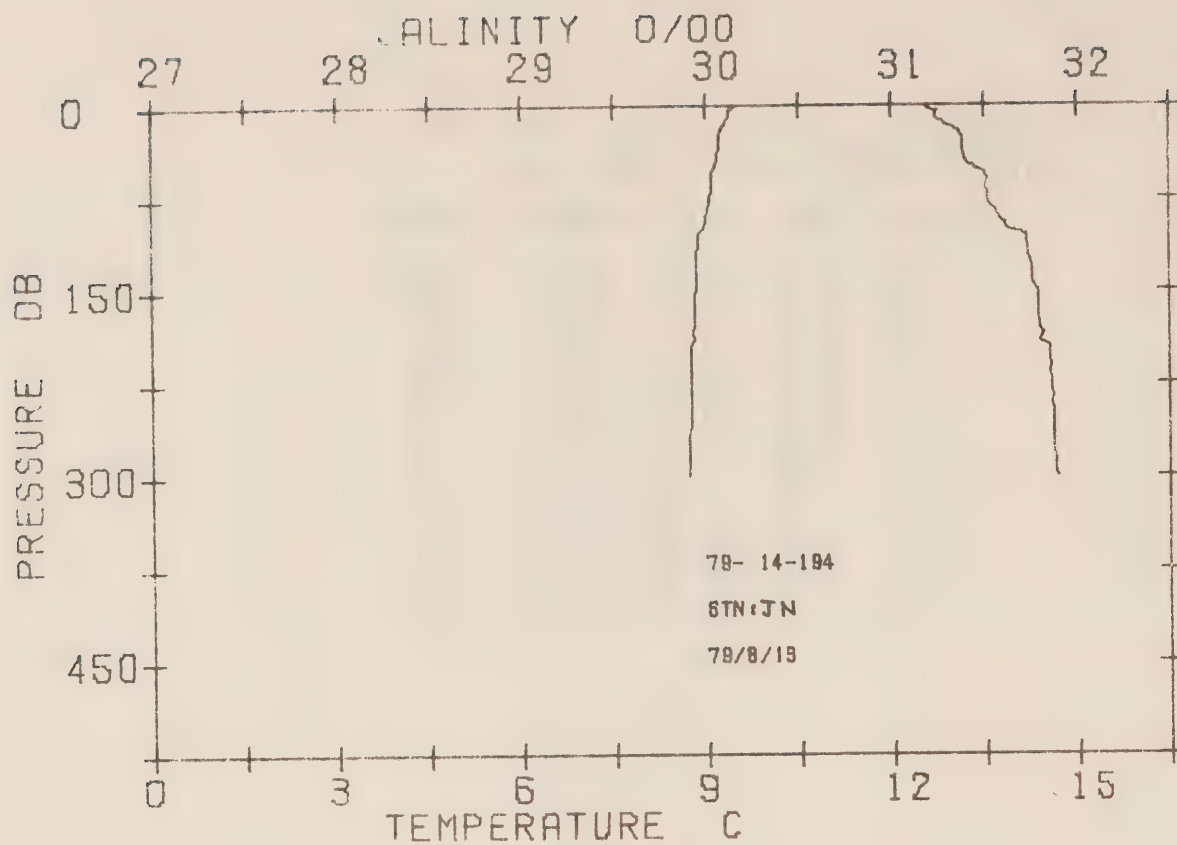


STATION jn CRUISE 79-14 CONS #142
 POSITION 50-28.7N 126- 8.1W
 DATE 79/ 8/12 TIME 8:49: 7 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.50	31.24	24.13	1484.
10	9.32	31.26	24.17	1483.
20	9.28	31.31	24.22	1483.
30	9.20	31.39	24.29	1483.
50	9.11	31.48	24.38	1483.
75	9.05	31.54	24.43	1484.
100	9.00	31.58	24.47	1484.
125	8.81	31.76	24.64	1484.
150	8.80	31.78	24.65	1484.
175	8.77	31.81	24.68	1485.
200	8.75	31.82	24.69	1485.
225	8.73	31.85	24.72	1485.
250	8.70	31.88	24.75	1486.
275	8.69	31.90	24.76	1486.
300	8.69	31.91	24.77	1486.

STATION js CRUISE 79-14 CONS #143
 POSITION 50-27.9N 126- 8.2W
 DATE 79/ 8/12 TIME 9:25:38 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.49	31.10	24.02	1484.
10	9.42	31.17	24.08	1483.
20	9.31	31.24	24.16	1483.
30	9.29	31.27	24.18	1483.
50	9.25	31.33	24.23	1484.
75	9.08	31.50	24.39	1484.
100	8.92	31.65	24.54	1484.
125	8.84	31.73	24.61	1484.
150	8.83	31.74	24.62	1484.
175	8.77	31.82	24.70	1485.
200	8.76	31.83	24.70	1485.
225	8.75	31.84	24.71	1485.
250	8.74	31.86	24.72	1486.
275	8.74	31.86	24.72	1486.
300	8.74	31.87	24.74	1487.

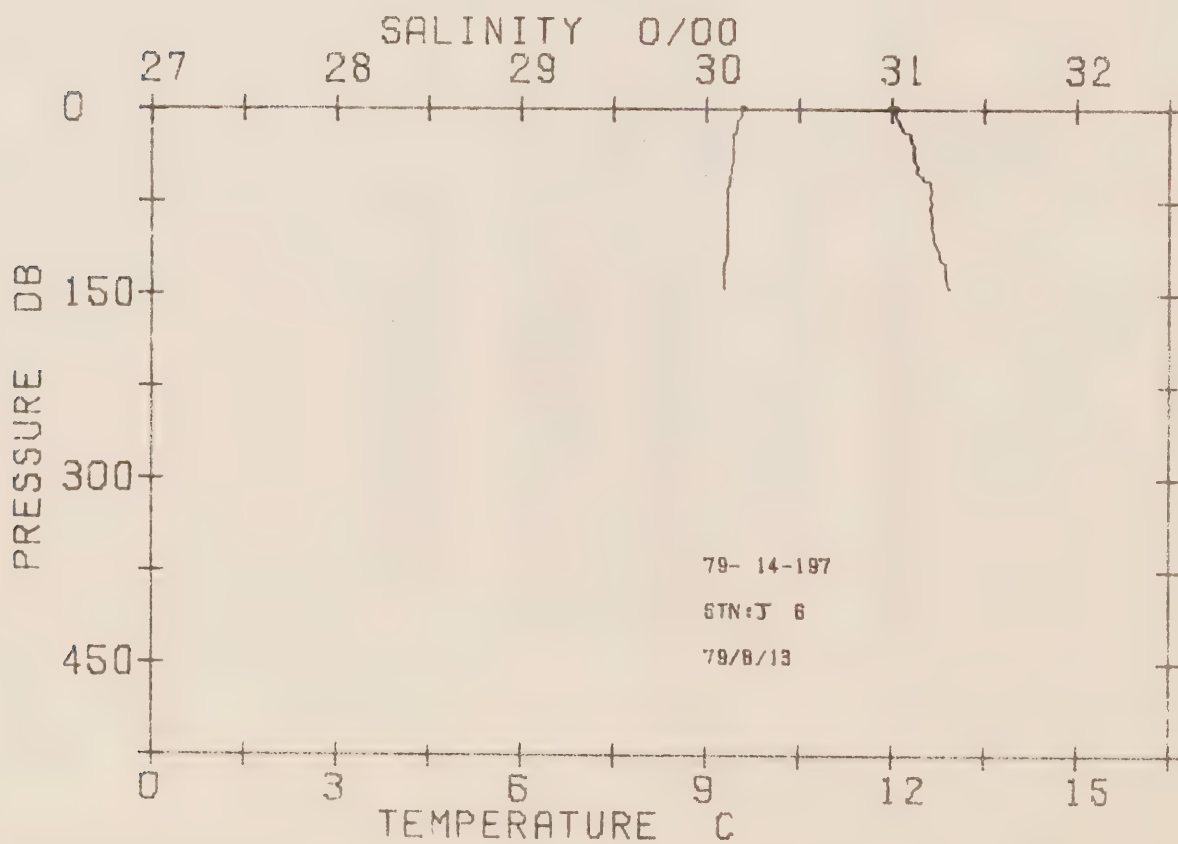
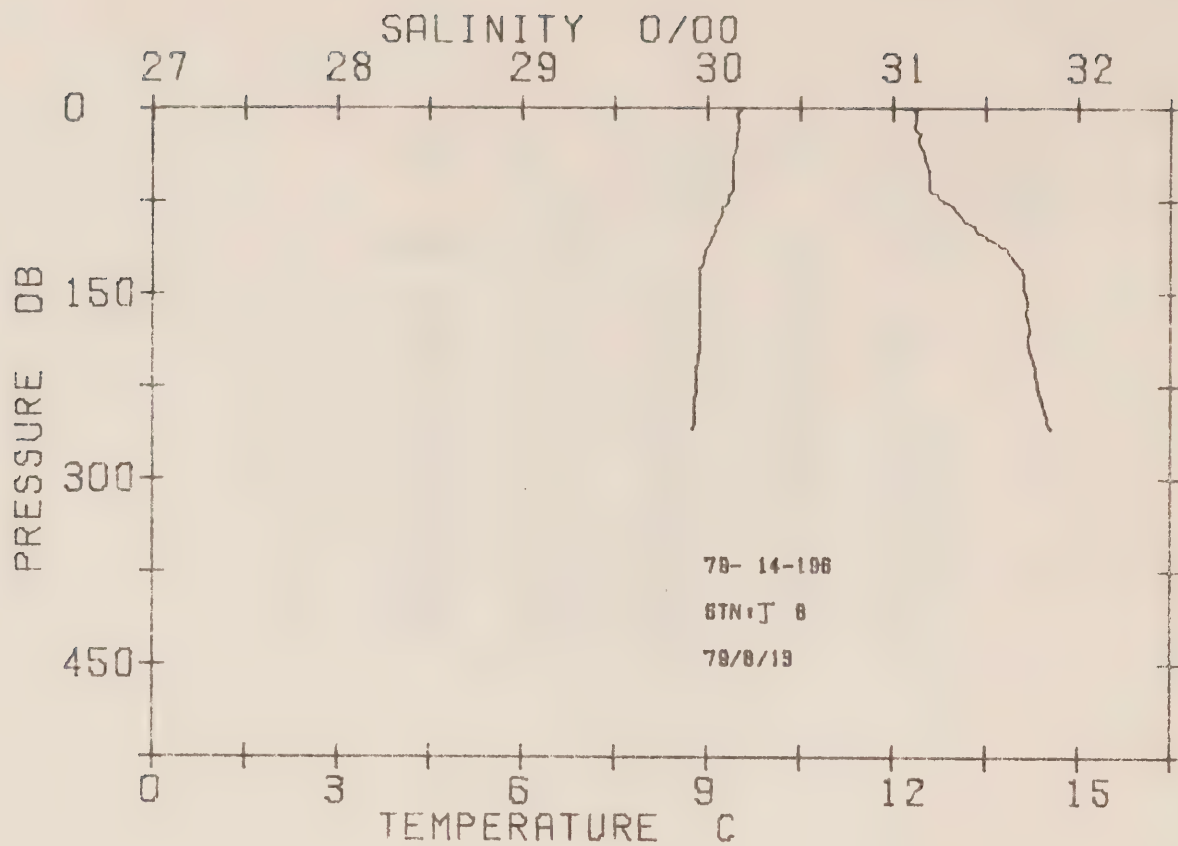


STATION jn CRUISE 79-14 CONS #194
 POSITION 50-28.7N 126- 8.1W
 DATE 79/ 8/13 TIME 10: 7:52 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.46	31.19	24.09	1484.
10	9.37	31.24	24.14	1483.
20	9.24	31.36	24.26	1483.
30	9.21	31.39	24.29	1483.
50	9.15	31.45	24.35	1483.
75	9.07	31.52	24.41	1484.
100	8.97	31.62	24.51	1484.
125	8.85	31.75	24.62	1484.
150	8.83	31.79	24.66	1484.
175	8.81	31.80	24.67	1485.
200	8.75	31.85	24.72	1485.
225	8.74	31.86	24.73	1485.
250	8.74	31.88	24.74	1486.
275	8.73	31.88	24.74	1486.
300	8.72	31.90	24.76	1487.

STATION js CRUISE 79-14 CONS #195
 POSITION 50-27.9N 126- 8.2W
 DATE 79/ 8/13 TIME 11:16:39 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.54	31.19	24.08	1484.
10	9.48	31.20	24.10	1484.
20	9.31	31.27	24.18	1483.
30	9.25	31.33	24.23	1483.
50	9.05	31.55	24.44	1483.
75	8.88	31.70	24.58	1483.
100	8.84	31.77	24.64	1484.
125	8.80	31.81	24.68	1484.
150	8.79	31.84	24.70	1484.
175	8.77	31.85	24.72	1485.
200	8.77	31.85	24.72	1485.
225	8.77	31.86	24.72	1485.
250	8.73	31.88	24.75	1486.
275	8.72	31.89	24.75	1486.
300	8.72	31.90	24.76	1487.

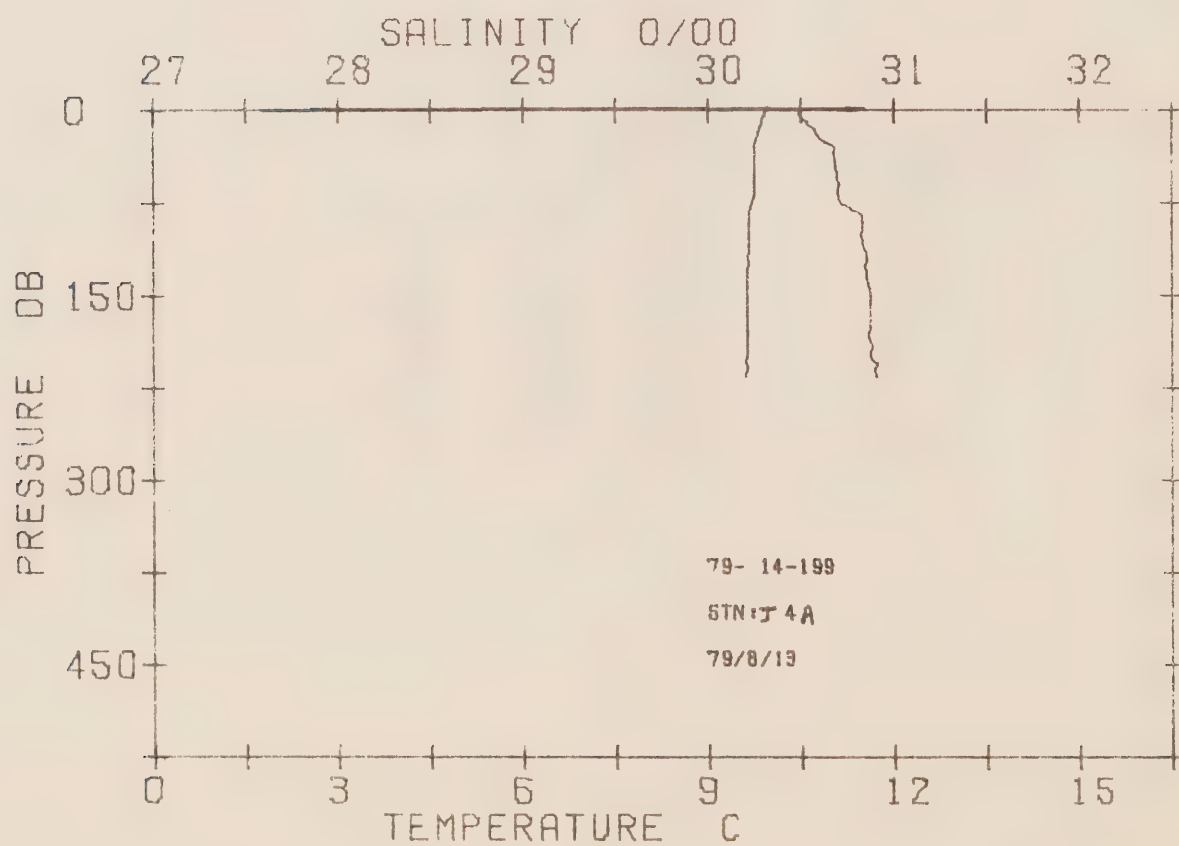
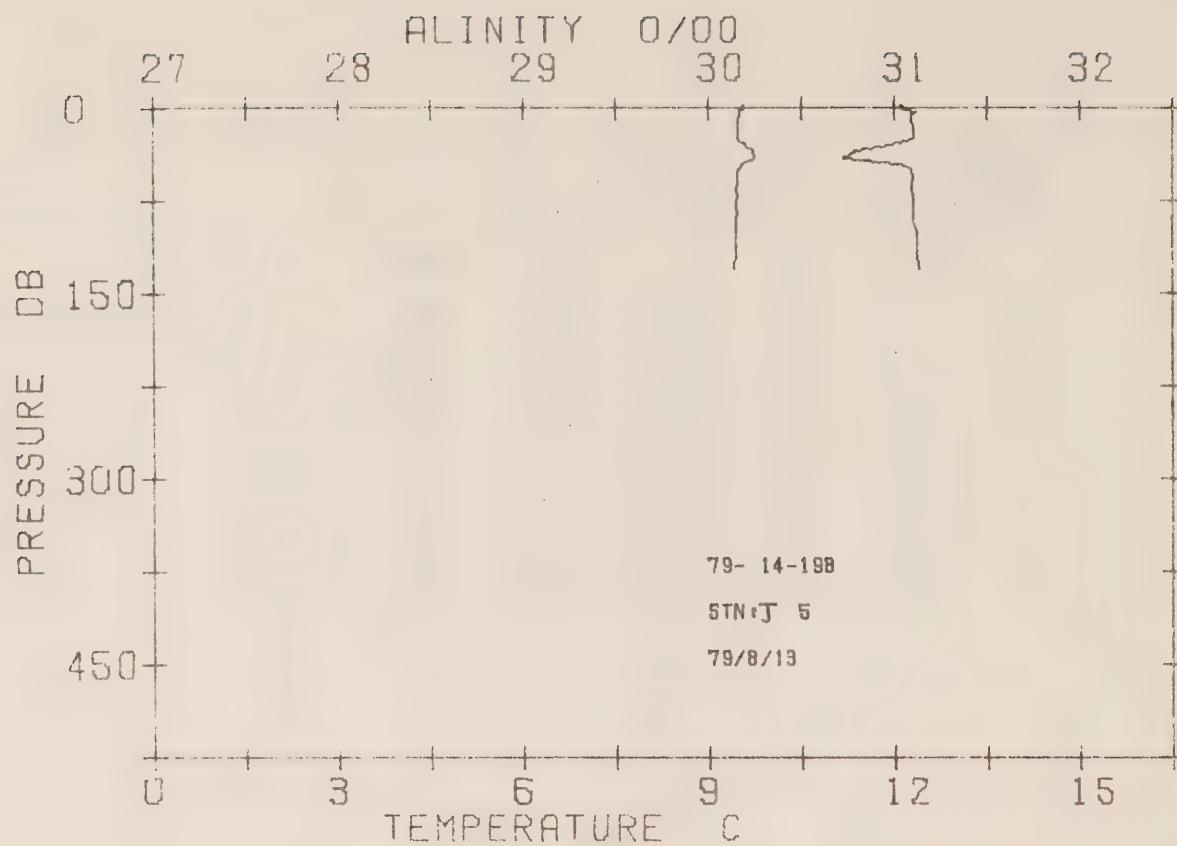


STATION J 8 CRUISE 79-14 CONS #196
 POSITION 50-27.5N 126- 3.4W
 DATE 79/ 8/13 TIME 12:50:19 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.55	31.06	23.98	1484.
10	9.49	31.12	24.03	1484.
20	9.46	31.15	24.06	1484.
30	9.46	31.15	24.06	1484.
50	9.40	31.20	24.11	1484.
75	9.33	31.27	24.18	1484.
100	9.13	31.46	24.36	1484.
125	8.93	31.67	24.55	1484.
150	8.88	31.72	24.60	1484.
175	8.86	31.74	24.61	1485.
200	8.84	31.75	24.63	1485.
225	8.81	31.78	24.66	1485.
250	8.78	31.83	24.69	1486.

STATION J 6 CRUISE 79-14 CONS #197
 POSITION 50-26.4N 126- .7W
 DATE 79/ 8/13 TIME 13:53: 4 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.57	31.01	23.93	1484.
10	9.51	31.04	23.97	1484.
20	9.45	31.10	24.02	1484.
30	9.44	31.12	24.04	1484.
50	9.41	31.14	24.06	1484.
75	9.35	31.22	24.14	1484.
100	9.34	31.23	24.14	1485.
125	9.29	31.29	24.20	1485.

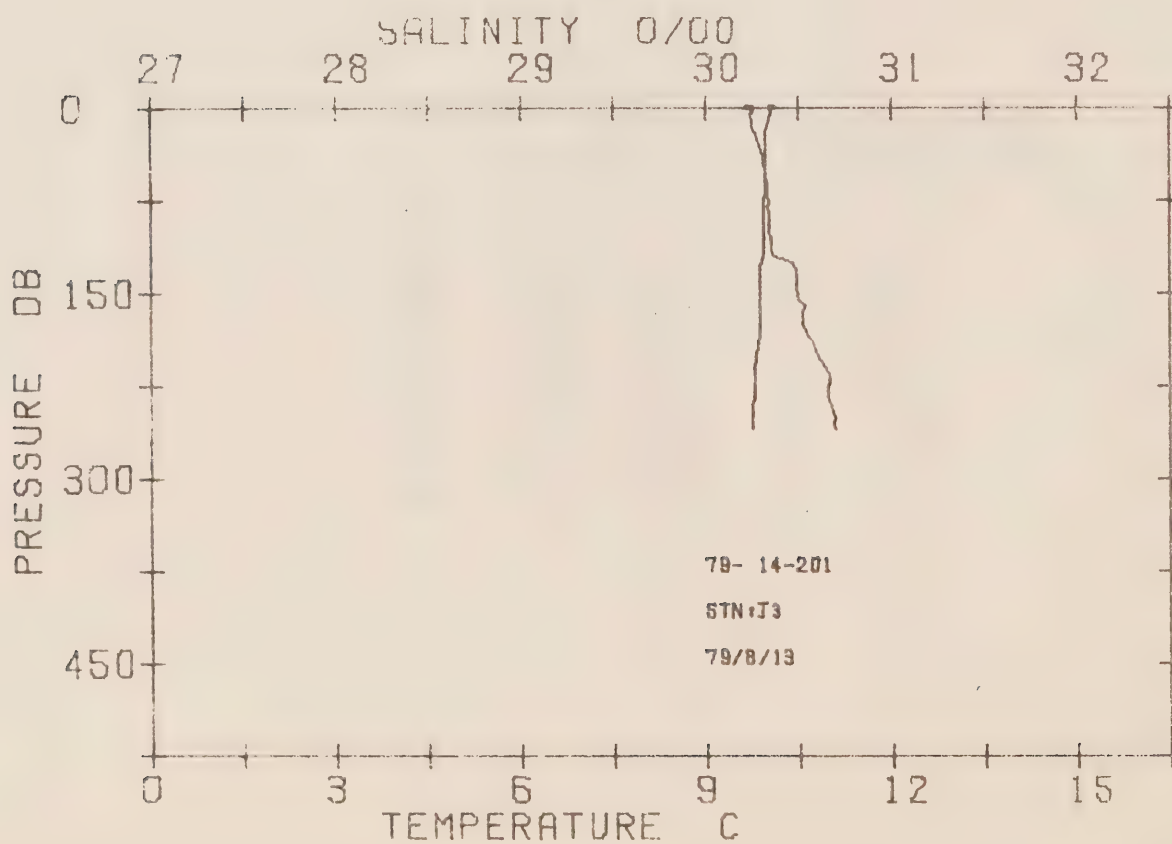
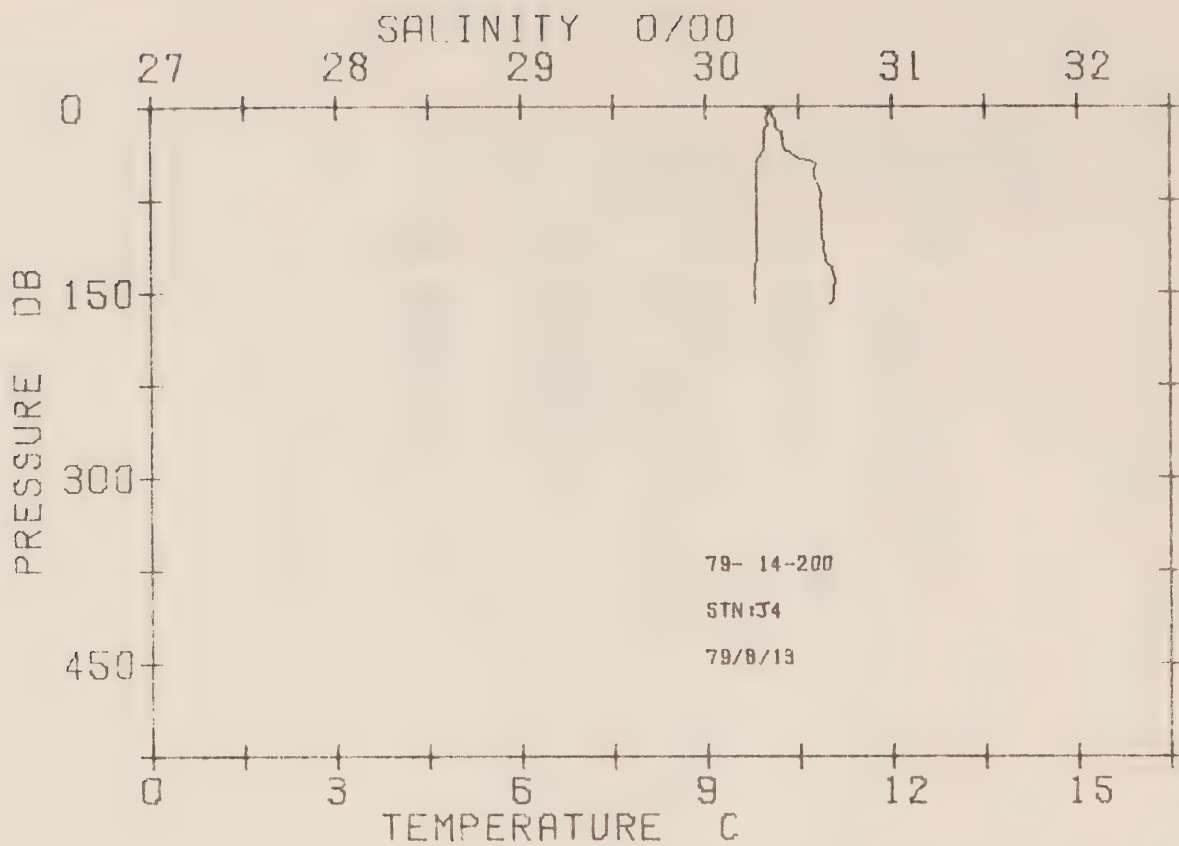


STATION J 5 CRUISE 79-14 CONS #198
 POSITION 50-24.5N 125-56.8W
 DATE 79/ 8/13 TIME 14:33:30 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.55	31.04	23.97	1484.
10	9.47	31.09	24.01	1484.
20	9.46	31.10	24.02	1484.
30	9.58	30.97	23.91	1484.
50	9.46	31.09	24.02	1484.
75	9.45	31.10	24.02	1485.
100	9.43	31.12	24.04	1485.
125	9.42	31.14	24.06	1485.

STATION J 4a CRUISE 79-14 CONS #199
 POSITION 50-23.5N 125-53.4W
 DATE 79/ 8/13 TIME 15:00:28 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	9.94	30.81	23.72	1485.
10	9.89	30.53	23.51	1484.
20	9.82	30.59	23.57	1484.
30	9.76	30.69	23.65	1484.
50	9.75	30.70	23.67	1485.
75	9.73	30.72	23.68	1485.
100	9.66	30.82	23.78	1485.
125	9.65	30.84	23.79	1486.
150	9.63	30.87	23.82	1486.
175	9.62	30.87	23.82	1487.
200	9.62	30.88	23.82	1487.

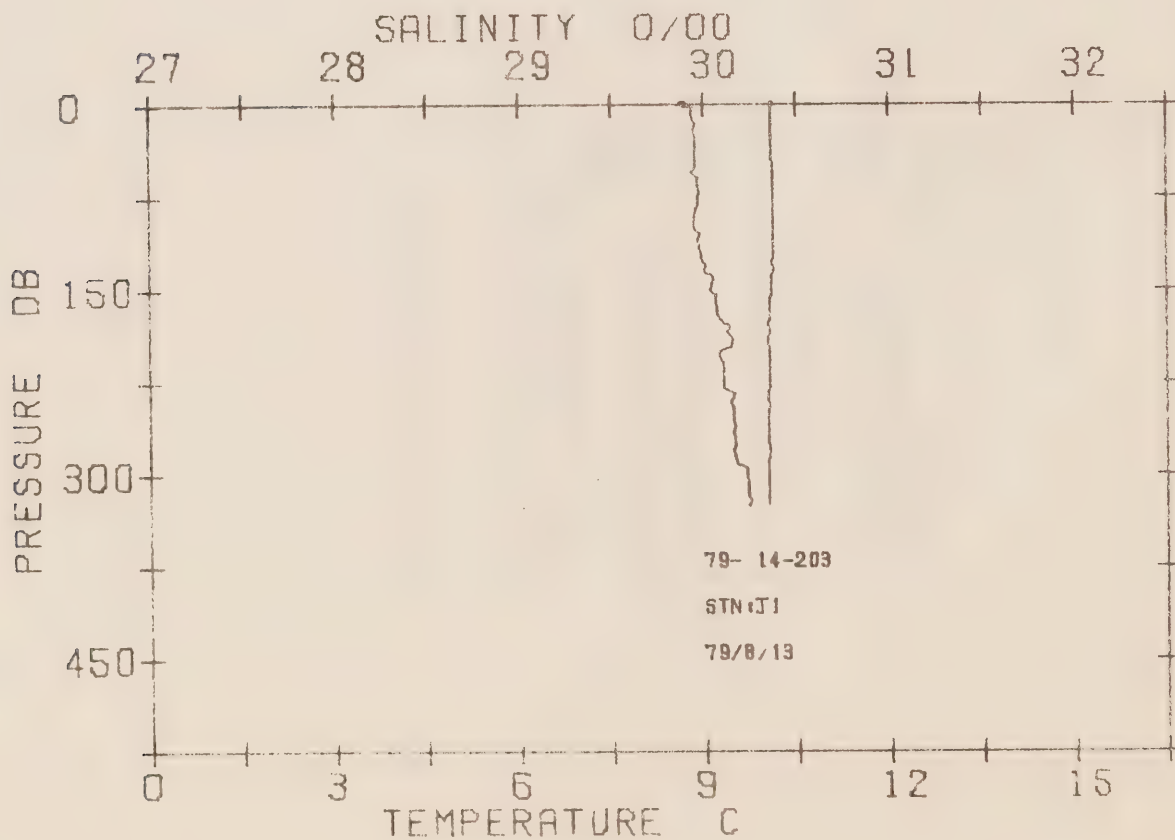
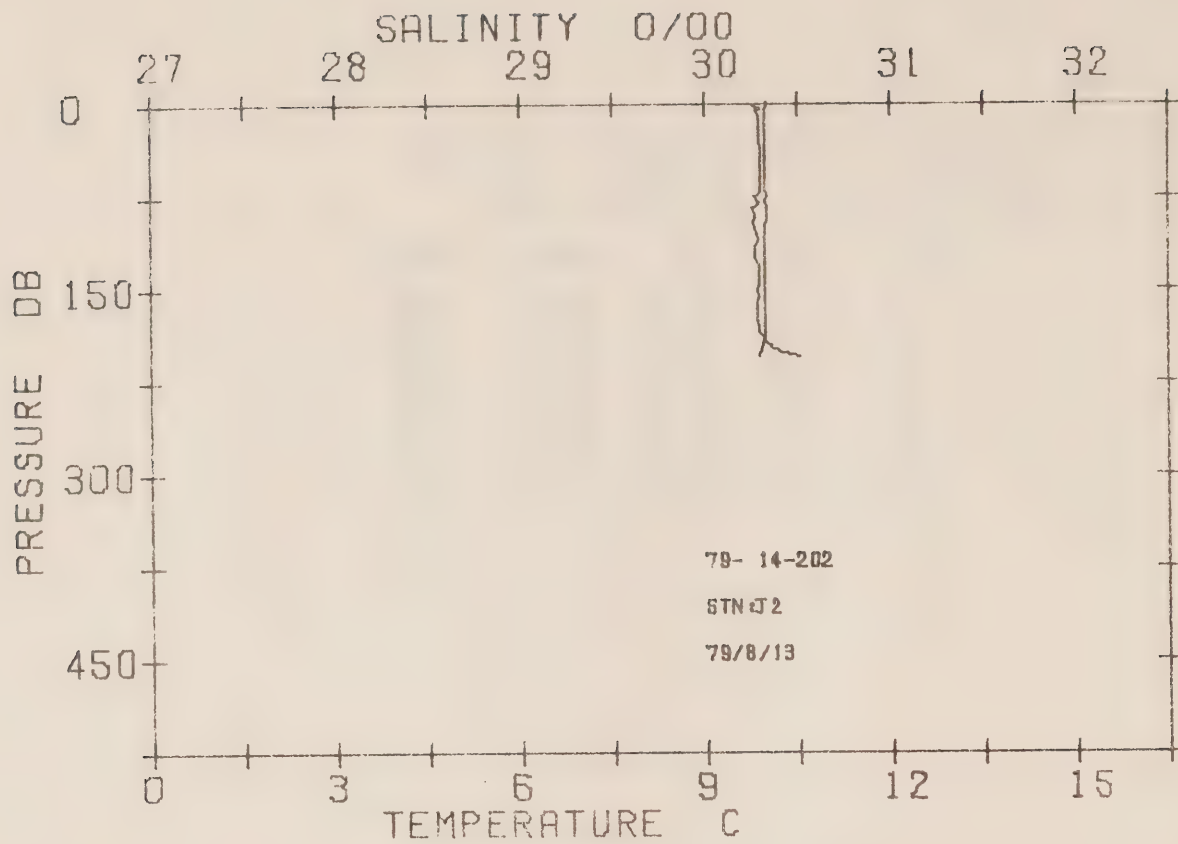


STATION J4 CRUISE 79-14 CONS #200
 POSITION 50-22.7N 125-47.0W
 DATE 79/ 8/13 TIME 15:47: 3 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.09	30.33	23.33	1485.
10	9.98	30.38	23.38	1485.
20	9.94	30.41	23.41	1485.
30	9.93	30.42	23.42	1485.
50	9.82	30.58	23.56	1485.
75	9.82	30.61	23.58	1485.
100	9.81	30.63	23.60	1486.
125	9.80	30.65	23.62	1486.
150	9.78	30.69	23.65	1487.

STATION J3 CRUISE 79-14 CONS #201
 POSITION 50-22.2N 125-39.0W
 DATE 79/ 8/13 TIME 16:26:31 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.04	30.26	23.28	1484.
10	10.03	30.25	23.27	1485.
20	9.98	30.27	23.29	1485.
30	9.97	30.29	23.31	1485.
50	9.96	30.32	23.34	1485.
75	9.95	30.34	23.35	1485.
100	9.95	30.34	23.36	1486.
125	9.90	30.47	23.46	1486.
150	9.88	30.50	23.49	1487.
175	9.88	30.52	23.51	1487.
200	9.82	30.60	23.58	1487.
225	9.78	30.66	23.63	1488.
250	9.76	30.70	23.66	1488.

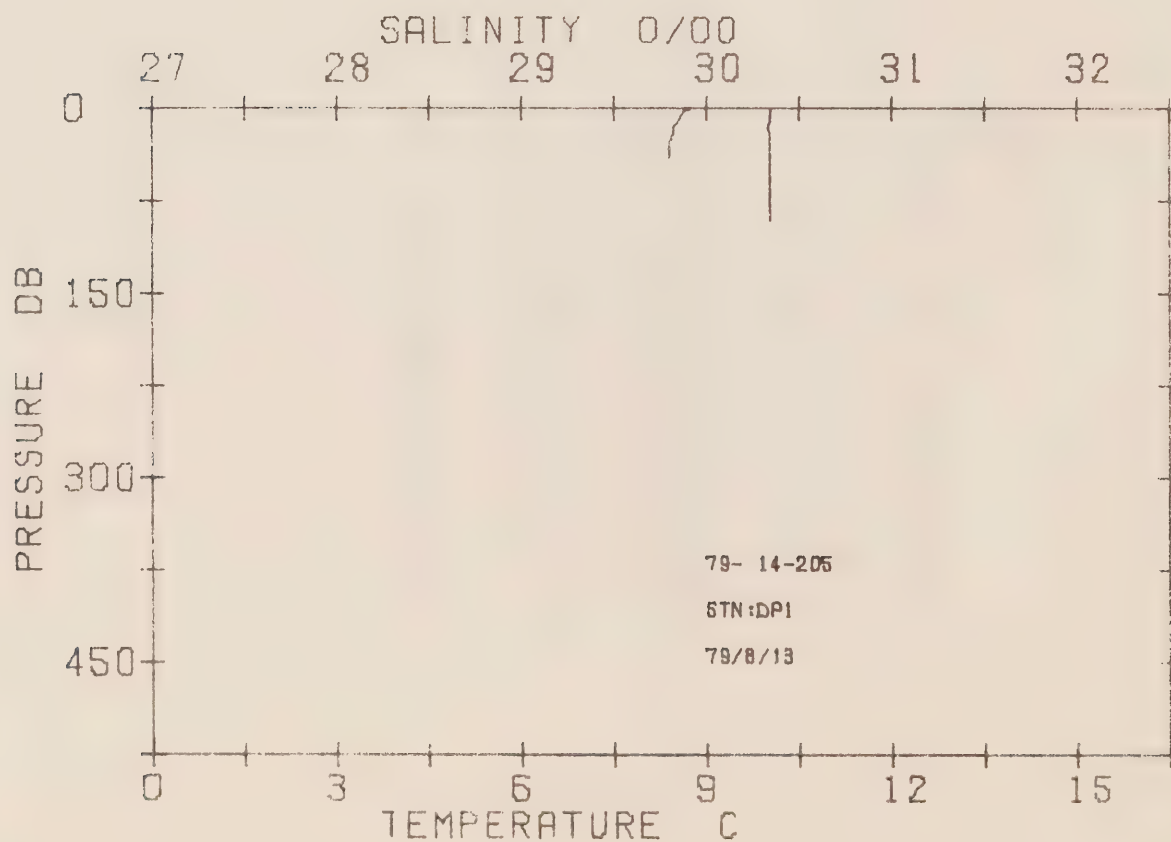
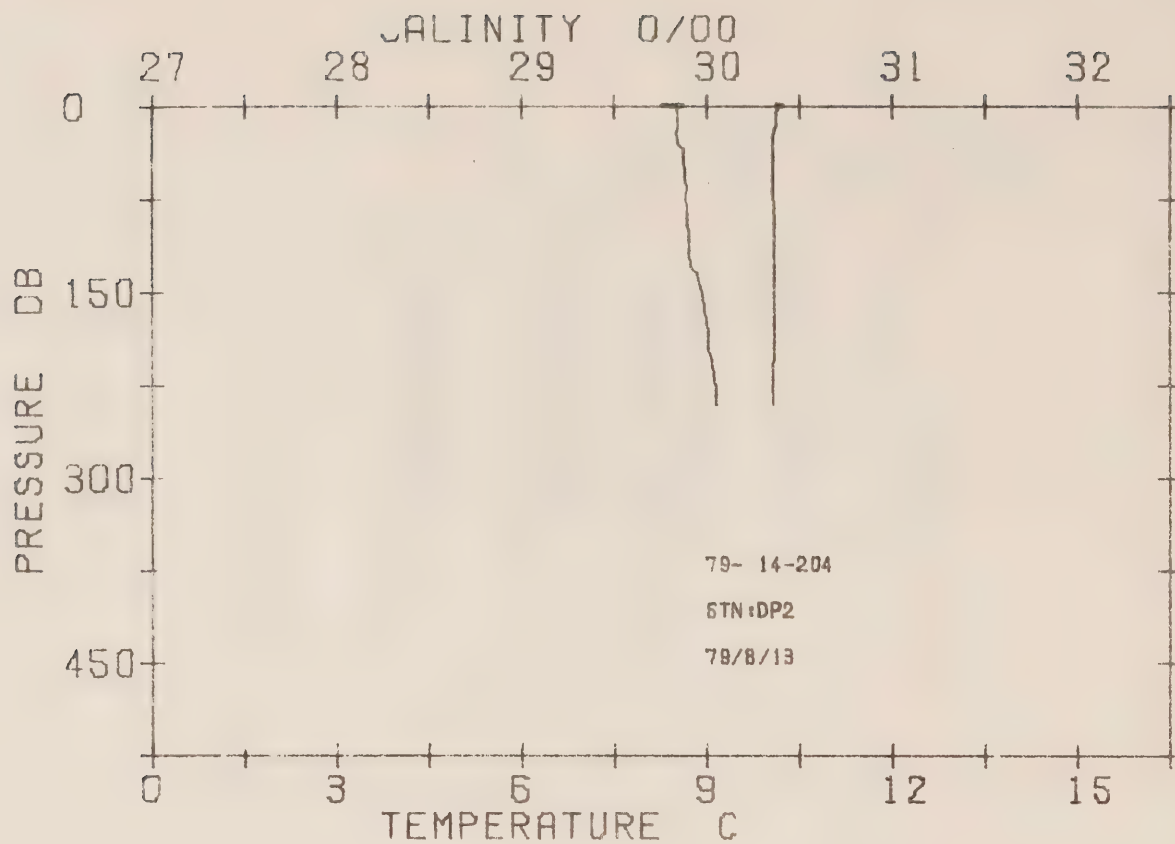


STATION j2 CRUISE 79-14 CONS #202
 POSITION 50-22.2N 125-33.5W
 DATE 79/ 8/13 TIME 17:10:56 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.00	30.26	23.29	1484.
10	9.97	30.29	23.32	1484.
20	9.97	30.29	23.31	1485.
30	9.97	30.29	23.31	1485.
50	9.96	30.30	23.32	1485.
75	9.99	30.27	23.29	1486.
100	9.98	30.27	23.30	1486.
125	9.98	30.27	23.30	1486.
150	9.98	30.28	23.31	1487.
175	9.98	30.28	23.31	1487.
200	9.92	30.40	23.41	1487.

STATION j1 CRUISE 79-14 CONS #203
 POSITION 50-20.7N 125-25.5W
 DATE 79/ 8/13 TIME 17:52:13 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.11	29.90	22.99	1484.
10	10.09	29.94	23.02	1484.
20	10.09	29.95	23.03	1485.
30	10.09	29.96	23.04	1485.
50	10.12	29.96	23.03	1485.
75	10.12	29.97	23.04	1486.
100	10.13	29.95	23.03	1486.
125	10.12	29.99	23.06	1486.
150	10.10	30.03	23.09	1487.
175	10.07	30.09	23.14	1487.
200	10.07	30.08	23.13	1488.
225	10.06	30.10	23.15	1488.
250	10.04	30.16	23.20	1488.
275	10.04	30.17	23.21	1489.
300	10.02	30.23	23.26	1489.
325	10.02	30.24	23.26	1490.

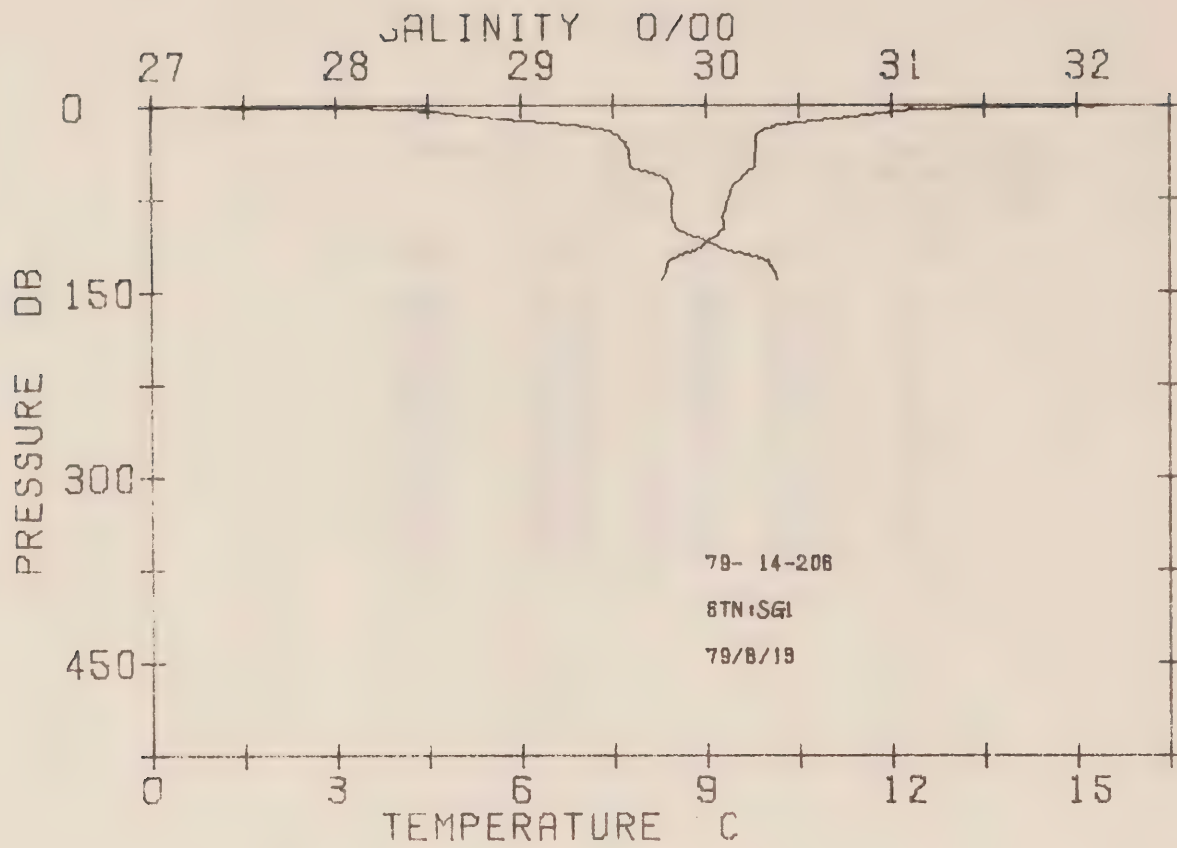


STATION dp2 CRUISE 79-14 CONS #204
 POSITION 50-14.7N 125-23.0W
 DATE 79/ 8/13 TIME 18:57:54 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.12	29.85	22.95	1484.
10	10.12	29.84	22.94	1484.
20	10.10	29.83	22.93	1484.
30	10.05	29.84	22.95	1484.
50	10.06	29.89	22.98	1485.
75	10.07	29.89	22.98	1485.
100	10.08	29.91	23.00	1486.
125	10.08	29.92	23.01	1486.
150	10.08	29.98	23.06	1487.
175	10.08	30.00	23.07	1487.
200	10.08	30.02	23.09	1488.
225	10.07	30.05	23.11	1488.

STATION dp1 CRUISE 79-14 CONS #205
 POSITION 50- 5.1N 125-16.4W
 DATE 79/ 8/13 TIME 20:19:26 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	10.02	29.90	23.00	1484.
10	10.02	29.85	22.96	1484.
20	10.02	29.82	22.94	1484.
30	10.02	29.80	22.93	1484.
50	10.02	29.80	22.92	1485.
75	10.02	29.79	22.91	1485.



STATION sg1 CRUISE 79-14 CONS #206
 POSITION 49-55.0N 125- 5.5W
 DATE 79/ 8/13 TIME 21:50: 3 PST

DEPTH	TEMP	SAL	SIGMA-T	SOUND
0	14.08	27.81	20.66	1496.
10	11.36	28.78	21.91	1488.
20	9.92	29.49	22.70	1483.
30	9.81	29.56	22.77	1483.
50	9.77	29.59	22.80	1483.
75	9.39	29.81	23.03	1483.
100	9.29	29.84	23.07	1493.
125	8.42	30.33	23.58	1480.

